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TECHNICAL REPORT

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STUDY OF THE CAPABILITY OF THE UNITED STATES TEXTILE AND APPAREL INDUSTRIES TO SUPPORT NATIONAL DEFENSE

VOLUME 2
Appendix

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TONY D. BROOKS
AND

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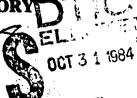
JUNE 1983

UNITED STATES ARMY NATICK RESEARCH & DEVELOPMENT CENTER NATICK, MASSACHUSETTS 01760-5000



INDIVIDUAL PROTECTION LABORATORY

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20. ABSTRACT (Cardian en reverse stab N necessary and identity by block number) The objective of this project is to determine the national defense requirements for textiles and clothing and the impact these requirements will have on the United States industrial capabilities in a peacetime or wartime environment.		
further objective is to define the	s in a peacetime role Natick R&D	or wartime environment. Center should take to meet
esearch and development requirements	s of the militar	y services which are not
xpected to be met by the United Stat	tes textile/appa	rel industry.

Volume 1 of the report indicates that, in general, sufficient capability exists

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in both the textile and apparel industries to meet the mobilization requirements of the three unclassified scenarios in the report. However, several weaknesses were identified that could become critical, especially under full mobilization conditions. These weaknesses are:

- Sole source proprietary fibers;
- Very heavy duck fabrics used in tents, tarpaulins and vehicle upholstery;
- Foreign sole source chemicals related to fire, water, weather, and mildew resistance (FWWMR); infrared reflectance (IR); and colorfastness;
- Foreign source sewing needles.

Also, the report recommends that all DoD clothing and individual equipment research and development activities be consolidated at the Natick R&D Center.

Volume 2, Appendix, provides documentation information

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PREFACE

This study illustrates the variables involved in analyzing military textile and apparel requirements for mobilization. The study addresses the multiple issues of procurement, planning, sourcing, logistical constraints, industrial base response, and research and development in the context of the strategic nature of textile and apparel. This is not a technical document to describe any particular process of either the textile or apparel industry, though we are significantly indebted to numerous individuals, agencies, and organizations in both industrial and government areas of technical assistance.

Kurt Salmon Associates, Inc. (KSA) received a contract award from the Directorate for Procurement, Army Natick Research and Development Laboratories (now U. S. Army Natick Research and Development Center) to perform the Study of the Capability of the United States Textile and Apparel Industries to meet Armed Forces Requirements in Support of National Defense (see volume 1 in this series, NATICK/TR-84/043). The contract approval for this study was awarded 30 September, 1981 with a contract number DAAK60-81-C-0153. The project officer was Laurance Coffin.

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	STILL, AND ST. DARLY MIN OF ALE LEATH SLEAK		MUSEUS, CHRAIT, MOYELME CARDIFLACE FAILERS
11. 5. 7105/EIM.)	SKIRKS, BURN'S, WILL	Mil. 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	MUCKES, EXIMENE COLD BEADER, THE 7-16
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	Andrea was a realizated and parties.	A11 - T - E - E - E - E - E - E - E - E - E	MATHEMATICAL BOLLS, COLUMN SPORT PERSON LIMITED FOLKS SIMES
	SHIRTS, While C. FOLKATIN, I'M.C. A.P. C. R.Y. C. ROOM		TABLES. DISCUSSION
	EFFES. HOMEN'S, LYA AM FOR FOREST LINE		MOSES. NOV. (1117) PA 191701
	SCISS, ABI'S, WINTER (ACID AND COTTON)	MIL-T-87067(NJ)	FOLSKS, MOVE (FIRE DAILYED, SHIP DE DAILYED
٠	Street, Division, nativism, 1970 g. 4, 1140	MIL-U-17611F	ONTESTINE ELECT CAD PERMITS
1971C+-S-TH	SCEED, LATKINE, FIRE, WITH, MENTHER & MILDEN RESIS.	MIL-U-432420	UGEISHIRT, COLD MEATHER, REN'S
-	SCAST, NEELWESE, WITHIN'S, ACT. LIC	MIL-V-43707B	USST, APPLICITION CONTING, FIG. FOR MY ROOD LANGUAGE
ML-5-43357C	SHIRT, SLEEPING, MENT ASSENTING & MOIST, SPINSTANT	411-V-81523A(AS)	UST, SEVIUM EGGERAL, THE SE-2A
III -S-4349460.)	SKIKT, WONAN'S, WICH, FIELD	FDD-C-428E	COUST, INTRESS
	SHIRT, WISH, KILLS	B00-H-71H	S PER S. P. S. P. S. P. S. S. P. S.
랠	SHKI, MOLEN S, FOLIETIEN COTTON	3182-S-656	SEET, MD, COTTON, AT FOLIESTER, COTTO
ML-S-43524B	SLACES, UTILITY; MONDY'S, MONL, FIELD	1955-1-000	TOLEL, MATH, COTTON, TEAKY
FIL -S-43626	STAF, LEIFING, CACO TIE DON: LIDITABICAL JACOB FLANE	W-C-513	UNTERSHIPT, NAW S, (RUCKIER-SLEDE)
III-S-43829A	SUNDERS, PURPOSE STURES SELL LE-1	3771-4-3	DAFALINES, COTTON IN. I., FIRES.
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SELFICATIO:	<u> </u>
11.5-37.55	Salte wif, led
3.4 RESE786	HINET. CIPEL INVILLE CEPTIN, WITH FALLISTIC THEIL, DH-1725
F.1 (ES182	ROLL MADE, SMILL AND PROTECTIVE, AINCELLAND
£.68E21189	NAME AND DESCRIPTION OF STANDARD PRODUCTION OF COMPONENT
F.FEE:30735	HER AND, NOW FOUS, OF AD IN FROMMING FORESTON FOR
J. FIESIV73C	COST, CANDULAGE PATTERN: RESETT
1/12/25/14	CARS, HELVET, CAN GELAGE
J -: DEC1478	COMMIT, Grisal vibrille course :
1102377	of Med, Corest Versille Creation's, Cital Century
F/FPE5:378	LUASS, CORNI WHICH CLEMBYS, SATE
J. FIES 2077	RESIDED, GRAND TOOKS - FACENCIETS RELACT
J.7115512784	FINEL GREEN TREES - FEACURITIES
£.706549718	HAT, CLANATINGE FATTEN: DESENT
J.F. F. S1473A	LINES, MICH CATAFLAIR, FRICA LESENT
JA 1651279	LINES, COTACT VEHICLE CHEMOI'S CREAL
J-71ES1530	CITCALLS: CORAT VEHICLE CEDIEN'S
JE-T-BESSS73A	FAIN, NIGHT CANDULGE PATTEM: DESERT
14 LES10746	Transars, wicht Chroadure Pattern: Deseat
UA MESSOTE	FOCIES, CAN-FLACE FATTERS DESIGN
JF - F DEST 440	noci, copat vehicle chemen's constalls (partham)
UA DESINT	SECTION ASSEMBLY, CROUD MOOFS: . PARCHAISTS: HAURT

TION LITER MEDICATION	PER HIGHA 3-4 TDI, CASCO TRAILER-COSTS, TASFALIN		IN THE ATTO TESTINGS THE SPACE.	1 1/4 TON CASO AX:CYPS, CUSTAINS, SEATS	CASSIEN-S-ELIES, INV AR. In	Lia ton anathrice truly-couthantstain, seat, sift	1 1/4 TON MANAMEE THICH COASE, CHAININ, SENTS	2/4 TON SEMI-TRAILERCOUST, TAJFALIN	PRICE TACTOR, 1640-105 SAT	1 1/4 TON ANY CAN'T TRUCK -SEATS	8 TON LINE HAR THATTON THAT I SENT	10 TON LINE HALL THACTOR TRACE - SZATS	10 TON LINE HAVE TRACTOR TRACE SCATS	TALE CMOD, SIGNT 10°, SEAT, N.M. AND TAS (BIT)	TRACE, CHICO, LING TOF , SENT, NOW AND THRE (FIT)	•-	MALTI, MARTIES 10: SEAT	TALE JAKETAEN - 10F, SEAT	10 TOF CAGO TRUCE, CTO, B G	10 TON CAKED TFUEL, 4250, 634	Appl Street	FESCHEL TATE A SERVE MOIT	POSCHAEL, TRUCH, MCL	CostCo	CWCD	823	CAKO, Extraction	CAGO, EXIACTION	CAND, EXTRACTION, HEAVY BUTT
SECTION NAMES	WEN MIGHAL	VDI-RIOSAS		20.00	VD4-1677	VEH-NO 18	UEH RIVE	VOH 1872	VOY-RE/A	UDI-K304	VDI-RUS	19-E	CER-MES	VDI-15/26	VDH-1627	101 E/S	10 -100	10-14-S	VE-11:77	VD-1785	40.	2	10 · 10	6:1:9	£1:3	¥.	2	2	E 2

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APPENDIX B LIST OF STUDY TEXTILE COMPONENTS BY SPECIFICATION

BI ENDS

BIL ENDS

Spec	Desce tpt ton	# Occurrences	Spec	Description	Occurrences
MIL-C-823	Cloth, Serge; Wool, Wool & Mylon; Poly & Wool	22	9/F-2-333	Cloth, Bunting, Hyl; and Myl and Wool	-
MIL-C-21115	Cloth, Tropical, Wool, Poly/Wool	15	LPP-DES13-80	Cloth, Interlining, Laminated Waterproofing, MVP Flame Bestelash	-
H1L-C-43718	Cloth, Tulli, Poly: Poly/Cin; Poly/Rayon		MII . C. 4 1992	Cloth Broadricth Bolyfee Dursing Press	-
MIL-C-43191	Cloth, Wind Resistant, Saleen, Cin & Mylon	=			
HIL-C-3924	Cloth, Oxford, Cim Marp & Myion Filling, Quarpel Treated	11	26220-7-114	Cioun, production, woot, and whot-synthetic	-
M11 -C-10176	Cloth Cabardine Bool Poly L Moni		MIL-C-43847	Cloth, Oxford, Ctn Warp and Ctn and Nyl Blend Filling	
MIL-C-43482	Cloth, Poplin, Cin & Poly (Water Repellent)	, in	MIL-C-44034	Cloth, Twii, Camouflage Pattern, Cln & Nyl for Daytime Des.	فيس
HIL-C-29127	Cloth, Tulli, Poly/Ctm (Crease Resis, Finish)	· w			
M1L-C-43920	Cloth, intertining, Ctm or Synthetic and Mylon	•			
MIL-C-21881	Cloth, Poplin, Poly and Ctn	•			
LPP-0ES18-73	Cloth, Camouflage Pattern, Cotton and Mylon for Daytime Desert Uniform	•			
00-0-3-333	Cloth, Sheeting, Cln, & Poly and Cln	•			
MIL-C-43479	Cloth, Broadcloth, Poly & Ctn	•			
MIL-C-44033	Cloth, Camouflage Pattern; Woodland, Cln & Mylon	•			
MIL-C-43892	Cloth, Tulll; Ctn & Myl	~			
LPP-DES23-73	Cloth, Poplin, Cotton and Mylom for Desert Hight Parks	N			,
HIL-C-43843	Cloth, Plain Weave, Poly/Ctn, Precured, Durable Press	2 559.			
MIL-C-11065	Cloth, Flannel, Wool & Myl. 16 oz., Shrink Resistant	int 2			
MIL-C-29363	Cloth, Poplin: Poly & Cin (Mater Repellent)	~			
HIL-C-43791	Cloth, Inill, Poly/Ctn (Durable Press)				
MIL-C-43675	Cloth, interlining, Cin Marp and Rayon filled				
MIL-C-83450	Cloth, Satin Weave, Napped, Aramid Thenolic, Muol/Hodacry				
MIL-C-62252	Cloth, Broadcloth, Wool, and Wool-Synthetic (Hoth Proofed)	••		•	

NATURAL FIBERS

<u> </u>	Description	6 Occurrences	뵑	Description	# Occurrences
611-3-333	Cluth, Duck, Cin, Umbleached, Piled Yarns	18	MIL-C-3760	Cluth, flannel, Wool & Cin	~
CCC-C-429	Cluth, Osnaburg, Cta	15	964-0-333	Cloth Muslin, Ctu	~
297-J-333	Cloth, Burlap, Jute (Kenaf)	*	MIL-C-10799	Cluth, Coated, Cin, Vinyl Coated, Fire and	~
MIL-C-326	Cloth, Silesia, Ctn, Pkt Lining	=		Milder Resistant	
864-0-000	Cloth, Buckram, Cin	.	CCC-C-432	Cloth, Sheeting, Ctn, (Unbleached, Bleached, L Dyed)	2
HIL-C-43627	Cloth, Ctn, Duck, Plied Yarns FMAMA, Lightdry	. 21	824-J-JJJ	Cluth, Duck, Cin; Fire, MAR	-
ML-C-297	Cloth, Interlining, Ctn-Warp, & Spun Hair-Wool	^	M1L-C-41808	Cinth, Duck, Ctn; Fire, Water, Weather & Hildew Resistant	-
924-0-000	Clarks, Orting, Cap		HIL-C-2184	Cloth, Flannel, Wool, 10-1/2 oz., Shrink Resistant	-
Mil -C-12095		•	CCC-C-440	Cloth, Cheesecloth, Cin	-
MI C 243		•	166-0-00	Cloth, Corduray, Ctn	-
MIL-1-342	Lloth, Wind Resistant, Puplin, Cin	LO.	MIL-C-29118	Cloth, Tulli, Ctn	
MIL-C-43468	Cloth, Camflg. Ptrn; Wind Resis. Poplin, Ctn	•	MIL-C-29137	Cloth, felt fabric Commosite Induces	-
MIL-C-10859	Cloth, Oxford, Ctn, (Permeable)	•	16-5-33		• •
MIL-C-16375	Cloth, Migan, Ctn	•		ciora, corantoj, cra	
MIL-C-15062	Cloth, Flannel, Wool, Undercollar Cloth	•	,		
MIL-C-3738	Cloth, Elastique, Wool Resistant	-			
964-0-00	Cloth, Hicking Twill, Cta	•			
MJL-C-484	Cloth, Wind Resistant Oxford, Ctn Quarpel Treated				
194-2-223	Cloth, Iwill, Uniform Cin	•			
MIL-C-10296	Cloth, Saleen, Cin	. N			
MI-C-43122	Cloth, Saleen, Cin, flame Resistant Treated	~			
#11-C-16290	Cloth, Melton, Wool (Mothproofed)	~			,
HIL-E-483	Cluth, Pile: Alpace and Wool	~			
NIL-C-18387	Cluth, Twill, Cin, fire Retardant Treated	~			

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Spec	Description	Occurrences	Spec	Description	
111-6-508	Cloth, Oxford, Nylon, 3 ox		1		or currences
•		41	MIL-C-434/3	Lioth, Coated, Myl, Polyurethane Coated	_
M1L-C-368	Cloth, Satin, Rayon & Cloth, Twill, Rayon	13	HIL-C-83429	Cloth, Plain and Basket Meave. Aronatic Polvamide	-
MIL-C-21852	Cloth, Taffeta, Nyi	6 23	HIL-C-29147	Cloth, Plate Meave, Poly and Day Crosso.	•
MIL-C-7219	Cloth, Duck, Nyl	•		Resistant Finish	-
MIL-C-43594	Cloth, interlining, Poly		HIL-C-51251	Cloth, Coted; CBR Protective	
MIL-C-:2369	Cloth, Ballistic My	• •	M1L-C-20696	Cloth, Coated, Nyl, Waterproofed	~
M1L.C-43128	Cloth, Plain Meave Poly L Davin Cross on the	.	MIL-C-7020	Cloth, Parachute, Myl	
	Finish Control of the	o	MIL-C-43234	Cloth, Plain Meave, Acrylic	-
MIL-C-19759	Cloth, Coated, Iwill, Myl (Low Count)	v	MIL-C-44043	Cloth, Ballistic, Myl, Etweight, Water-Repellent	-
HIL-C-43251	Cloth, Pile, Acryllc Fiber Pile	va		Treated	•
MIL-C-43842	Cloth, Oxford, Nyl, Non-melting		M1L-0-21108	Cloth, Nyl, Raff Botton	
M11-C-43525	Cloth, Satin, Acetate or Rayon Face & Rayon or Ctn Back) wo.	HIL-C-19002	Cloth, Coated; & Tap, Coated Cloth Chloroprene on Nyl	-
MIL-C-12189	Cloth, Coated; Butyl Coated, lox. Agents	•	MIL-C-43874	Cloth, Plain Weave, Modacrylic, Water-Repellent	-
	Protective	•	MIL-C-43734	Cloth, Duck, Nyl, 9-ounce	
MIL-C-43774	Cloth, Plain or Pajana Check Meave, Myi Non-melting	•	MIL-C-40039	Cloth, Coated, Nyl, Vinyl Coated	-
MIL-C-81814	Cloth, Twill, Aronatic Polyzaide, High James	•	LPP-0ES32-75	Cloth, Ballistic, Arasid, Water-Repellent Thread	-
!	Resistant	•	MIL-C-19699	Cloth, Coated, Nylon, Tasceta	-
MIL-C-3395	Cloth, Netting, Myl		MIL-C-23926	Cluth, Coated and Laminated, Polychloroprene	~
006/-1-114	Lioth, Parachute, Myl	•	MIL C 43600		
MIL-C-43906	Cloth, Coated, Myl, Polyurethane, Double Coated		mt-t-43600	Cloth, will Aramid	
MIL-C-43375	Cloth, Buck, Myl, 12.5 oz.	~	MIL-C-43637	Cloth, Ripstop Mylon	
MIL-C-43204	Cloth, Spacer (Olefin)		MIL-F-43539	Cloth, felt, Ballistic, Mylon	-
MIL-C-44050	Cloth, Ballistic, Aranid	~			
ML-C-87052	Cloth, Iwill, Poly, White	~			
MIL-C-41820	Cloth, Gabardine, Poly & Ray	· N			

Sbec	theser lpt ton	Ø Occurrences		
MIL-C-3735	Cuffs, Koit, Wrist & Ankle, & Cloth, Knitted	13 Spec	Descript ton	# Occurrences
MIL-C-17155	Cloth, Knitted, Nylon, Fleece	M11-N-530	Webbing, Tex, Ctn, Gen Purpose, Nat ur in Colors	92
MIIC-43933	Cloth, Knitted, Warf, Linen Look, Poly	3 33-14-155	Webbing, Tex, (Cin, Elastic)	. 52
M11-C-43247	Cloth, Knitted, Myl, Tubular, Stretch Type	3 MIL-W-4088	Webbing, Textile, Woven Nylon	50
MIL-C-17157	Cloth, Knitted, Cin (Waffle Type)	2 MIL-N-43638	Welding, Low Elongation	10
MIL-C-6590	Cloth, Pile (Synthetic Mouton, Knitted)	AIL-W-43668	Mebbing, Textile, Bulked Mylon	6
M1L-C-43358	Cloth, Knitted, Nyl/Triacetate, Tricot, 06-106	A11-H-5664	Mebbing, Texille, Elastic, Ctn	30
MIL-C-43824	Cloth, Synthetic Fur, Knitted	2 MIL-W-43685	Webbing, Tape, Tex, Aramid Fiber	٠
MIL-C-81393	Cloth, Knitted, Polyanide, High Temperature	2 MIL-W-5665	Webbing, Tex, Ctn Warp	4
	Jimplex, Jersey	MIL-W-17337	Webbing, Tex, Moven, Myl	•
MIL-C-43858	Cloth, Laminated, Myl Tricot Knit, Polyurethane Foam Lam.	J MIL-W-27265	Webbing, Textile, Woven Nylon, Impregnated	-
NIL-C-43983	Cloth, Knitted, Polyester, Rib Knit	MIL-W-4368	Webbing, Nylon, Bulked	~
MIL-C-83398	Cloth, Coated, Stretch, Polychloroprene, Knitted Myl			
M31-C-46204	Cloth, Knitted Ctn Cimber			
		MIL-T-43566	Tape, Cin, Gen Purpose	19
MIL-C-41831	Cloth, Knitted, myl, Raschel	1 000-1-86	Tape, Textile, Ctn, Gen Purpose	54
MIL-C-43352	Cloth, Metting, Myl, Tulle Tricot	1 MIL-1-5038	Tabe. Textile & Mebbins Textile Deinforcing	2
LPP-DE 512-80	Cloth, Knitted, Aramid, Bi-Ply	•	Mylon	:
MIL-C-8061	Cloth, Mylon, Raschel, Knit	I HIL-T-43709	Tape, Textile, Myl, Non-Meiting	4
MIL-6-3866	Cloth, Cotton, Knitted, Light-Weight	I HIL-T-5237	Tape, Tex; Webbing, Textile, Rayon	æ
		MIL-J-2283	Tape, Textile, Myl, Woven, White or Dyed	-

Tape and Webbing, Cotton, Reinforced

MIL-T-5661 MIL-T-8363

Tere and Mcbbing, Hylon, Moven

7

	Description	# Occurrences	Spec	Descript ton	# Occurrences
MIL-8-41826	Catting, Syn fibers, Poly (Quild & Unquild)	2	MIL-C-43836	Cloth, interlining, Mon-woven	5
HIL-8-81913	Batting, Aramid or Movoloid, Quilted	,	MIL-C-29365	Cloth, Monwoven: Interlining, Fusible, Myl & Poly, Polyanid	
	THINE		MIL-8-87019	Cloth, Mon-woven, Disposable, Spun-Bonded	
1-1-871	Inine, Cotton, Wrapping	52			
1.1-911	Tuine, Fibrous Jute	*		THREADS - NATURAL	
1-1-881	Twine, Cin Seine	vo			
	SCIENT		200	Description	# Occurrences
MIL-8-371	Braid, Tex. Tabular		V-T-276	Thread, Ctn.	19
MIL-8-593	Coald for Flas	<u> </u>	V-T-280	Thread, Cin-Gimp, Buttonhole	69
M1L-8-1667	Braid Textile Cord-Edos	-	V-T-301	Thread, Silk	6
		-	V-6-871	Thread, Cotton	-
	CORD				
HIL-C-43303	Cord, Elastic, Cin	•	•	THREADS - MAN-MADE	
MIL-C-43256		. ~	V-T-285	Thread, Poly	99
1-C-571	Cord, Cotton, Gen and Special Purpose	~	V-T-295	Thread, Hylon	33
MIL-C-5040	Cord, Mylon	•	HIL-7-43636	Thread, Nylon, Mon-melting	21
Mf£-C-43701	Cord, Elastic, Nylon	• •	MIL-T-83193	Thread, Nylon, Spun, Staple, High Temp.	•
M11-C-43678	Cord, Polyester, Dlamond Braid	~	MIL-T-43624	Thread, Poly Spun	.
MIL-C-83242	Cord, Aromatic Polyanide, Hon-Welting	~		THREADS - BLENDS	
MIL-C-7515			M1L-T-43548	Thread, Poly, Ctn-M-sp	98

	HE ADBAND			STRAP	
Sec	Description	# Occurrences	y S	Description	Occurrences
MIL-H-41802	Meadband and Meckband, Group Troops, Heimet Liner	et 5	MIL-S-43355	Strap, Chin, Suspension Assembly	~
				SUSPENDERS	
	SHE AT BAND		M1L-S-6790	Suspenders, Trousers	~
MIIS-3577	Sweatband, Headwear, Leather	~			•
MIL-S-43993	Sweatband, Headwear, Artificial Leather			TUBING	
			M1L-1-40625	Tubing, Burlap or Osnaburg	
	\$4001				
MIL-L-11075	thops, Strap fastener			FACES	
			V-1-61	Laces, Mylon	•
	LABEL				
MIL-L-15040	Label, Garment, Woven Rayon			COAT FRONTS	
			M1L-C-15065	Coat fronts	vo
	ROPE			SL 19	
MIL-R-30500	Rope, Polyester	•	M1L-C-1734	Site. Tent Line	-
MIL-R-1670	Rupe, Tent Lay				•
T-A-605	Rope, Manile and Sisal	~		FASTENERS	
MIL-R-17343	Rope, Polypropylene	-	MIL-T-21840	Fastener Tape	92
MIL-R-24049	Rupe, Polypropylene				
1-R-616	Rope, Mildew Resistant				
	SJULT				
MIL-L-1709	Lines, Tent	•			
	PAINS				
M14 -P-15064	Pads, Shoulder and Sleeve Head	•			

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2000年1月1日 网络西西西西西西 中国人

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APPENDIX C

DLA SUPPLY CENTERS

Defense Construction Supply Center 3990d East Broad Street Columbus, OH 43215 614-236-3541 Defense General Supply Center
Bellwood
Petersburg Pike
Richmond, VA 23297
804-275-3617

Defense Electronics Supply Center

1507 Wilmington Pike
Dayton, OH 45444
513-296-5231

Defense Industrial Supply Center
700 Robbins Avenue
Philadelphia, PA 19111
215-697-2747

Defense Fuel Supply Center Cameron Station, Building 8 5010 Duke Street Alexandria, VA 22314

Defense Personnel Support Center 2800 South 26th Street Philadelphia, PA 19101 215-952-2321

APPENDIX D

GOVERNMENT FURNISHED MATERIAL (GFM) MECHANIZED REQUIREMENTS COMPUTATION PROGRAM

Government-Furnished Material

- Mobilization reserve, if required material is necessary, is needed/required.
- 2. Required for emergency project orders in Directorate of manufacturing.
- 3. Required for repair and maintenance of end-items.
- 4. End-item procurement quantities too small to permit economic purchase of textile material by end-item fabricators, or when quantities are too small to assure purchase of conforming product.
- 5. To take advantage of marketing conditions.
- 6. Anticipated shortages of labor.
- 8. Shortages of raw materials or production facilities.
- 9. When quantities are such that known substantial savings will result by increased competition and better price because of volume.
- 10. Specification requirements demand close control of product uniformity (especially subjective characteristics), and timely discovery of material deficiencies is essential for correction to preclude customer complaints.
- 11. Essential performance characteristics of the material must be assured and controlled prior to cutting and fabrication.
- 12. Long production lead time is required (normally greater than 4 months).
- 13. When end-item quantities are such that contractor procurement of the material will cause financial burdens sufficient to discourage or restrict bidding.
- 14. Cloth is required to be sponged.
- 15. Procurements are required in order to maintain a production base.

Contractor-Furnished Material

- When material has a commercial equivalent and is readily available.
- Relatively few quality aspects, where appearance and/or shade are not essential characteristics.
- 3. Substitutions and options are permitted.
- 4. When material contains finishes or treatments liable to be affected by storage.
- 5. When shade of material is liable to be affected by storage.
- 6. When material contains defects not easily detected when purchased and inspected according to requirements of the material specification (Example: material notoriously shaded within the roll, liable to cause cutting claims).
- 7. When potential introduction of new item is liable to cause inventory losses due to obsolescence and phase-out.
- 8. When material production and end-item fabrication is integrated (i.e., knit goods and domestic textiles).
- 9. Where costs of purchase, storage, and transportation do not recult in savings and lead time is less than 4 months.

APPENDIX E

UNIFORMS MERCHANDISE LISTING AS OF DECEMBER 1982

AAFES STOCK NUMBER	Description
441 209 010	Army Shirt S/S Poly/wool SH 428
441 209 040	Army Shirt L/S Poly/wool SH 428
442 329 030	Army Overblouse S/S SH 415
442 329 040	Army Overblouse L/S SH 415
440 233 200	Army Dress Jacket Blue SH 450
440 271 200	Army Dress Trousers Lt Blue SH 451 EM/OFF
440 265 050	Army Dress Trousers Dk Blue SH 450 GEN OFF
442 209 210	Army Women's Dress Blue Uniform SH 450
440 201 010	Army Male Uniform Green SH 434 EM
440 201 020	Army Male Uniform Green SH 434 OFF
440 203 070	Army Male Uniform Green SH 434 GEN OFF
442 209 250	Army Women's Uniform Green Classic 3-Pc SH 434
440 261 020	Army Male Trousers Green SH 434 EM
440 261 030	Army Male Trousers Green SH 434 OFF
442 329, 010	Army Women's Maternity Tunic Green SH 434
442 309 030	Army Women's Maternity Slack Green SH 434
442 209 010	Army Women's Maternity Skirt Green SH 434
442 209 203	Army Women's Skirt Classic Green SH 434
442 309 030	Army Women's Slack Classic Green SH 434
440 402 050	Air Force Male Uniform Blue SH 1598
440 432 520	Air Force Male Blue Mess Dress Jacket Officers SH 1583
440 432 530	Air Force Male Blue Mess Dress Jacket EM SH 1583
440 461 050	Air Force Male Trousers Blue SH 1598
440 462 460	Air Force Male Blue Mess Dress Trousers SH 1583
441 403 010	Air Force Male Shirt S/S Blue SH 1580
441 403 020	Air Force Male Shirt L/S Blue SH 1580
442 400 010	Air Force Women's Pantsuit Blue SH 1598
442 409 010	Air Force Women's Skirt Maternity Blue SH 1598
442 409 020	Air Force Women's Uniform Blue SH 1598
442 409 040	Air Force Women's Skirt Blue SH 1598 (washable)
442 409 080	Air Force Women's Blue Mess Dress Jacket SH 1583

UNIFORMS MERCHANDISE LISTING AS OF DECEMBER 1982 (Continued)

	· · · · · · · · · · · · · · · · · · ·
442 409 100	Air Force Women's Blue Skirt Formal Length Straight
442 409 110	Air Force Women's Blue Skirt Formal Length Flare
442 509 010	Air Force Women's Slace Blue SH 1598
442 509 030	Air Force Women's Slack Maternity Blue SH 1598
442 509 010	Air Force Women's Overblouse S/S Wht w/black tab
442 509 020	Air Force Women's Shirt L/S Blue SH 1580
442 529 030	Air Force Women's Turic Maternity Blue SH 1598
442 529 04G	Air Force Women's Overblouse S/S Blue SH 1580
442 529 050	Air Force Women's Overblouse S/S (Pantsuit) Blue SH 1580
442 529 260	Air Force Women's Shirt Mess Dress White w/blue tab
440 110 010	AP/AF Fatigue Jacket P.P. without tab 0G507
440 111 010	AR/AF Fatigue Trouser P.P. OG507
446 391 010	AR Dress Blue EM Conversion Kit (shoulder straps, two
	buttons, and sleeve braid).
AR-22	AR L/S Maternity Shirt
AF-24	AR S/S Maternity Shirt
AR/AF-2	AF S/S Maternity Shirt

HEADWEAR MERCHANDISE LISTING

AAFES CODE NUMBER	Description
440 112 010	Cap Fatigue OG 507
440 340 100	AR Cap Garrison 434 OFF
441 340 120	AR Cap Garrison 434 W.O.
441 340 130	AR Cap Garrison 434 EM
441 340 140	AR Cap Garrison 434 GEN
441 342 100	AR Cap Serv Ventld Fld GR
441 342 200	AR Cap Serv Furfelt CO GR
441 342 220	AR Cap Serv Furfelt FLD GR
441 343 342	AR Cap Dress Blue TW EM SH 150
441 343 350	AR Cap Dress Blue Furfelt CO GR
441 343 360	AR Cap Dress Blue Furfelt FD GR
441 349 400	AR Beret, SPEC FORC GRN
441 349 400	AR Beret, Ranger, BLK
441 339 610	AR WM Hat SH 344 GRN CO GR
441 339 620	AR WM Hat SH 344 GRN FLD GR
442 339 630	AR WM Hat SH 450 Blue CO GR
442 339 640	AR WM Hat SH 450 Blue FLD GR
442 339 700	AR WM Beret, BLK
441 541 230	AF Cap Serv SH 1598 AM-CO CR
441 541 240	AF Cap Serv SH 1598 FD GR
441 541 250	AF Cap Serv SH 1598 GEN
441 546 250	AF Cap Mess Dress SH 1583 Blu CO GR
441 546 240	AF Cap Mess Dress SH 1583 Blu FLD GR
441 546 270	AF Cap Mess Dress SH 1583 Blue Gen
441 547 160	AF Cap Flite SH 1598 AMN
441 547 170	AF Cap Flite SH 1598 OFF
441 547 180	AF Cap Flite SH 1598 GEN
	AF Beret Scrty Police Blu SH 1561
442 538 010	AF Cap Flite WM SH 1598 AM
442 538 020	AF Cap Flite WM SH 1598 OFF
442 538 030	AF Cap Flite WM SH 1598 GEN
442 530 100	AF WM Serv Cap SH 1598 Blue Plain AM/CO GR
442 530 300	AF WM Serv Cap SH 1598 Blue w/EMB CO GR
442 530 400	AR WM Serv Cap SH 1598 Blue w/EMB FLD GR
441 880 030	Marine Corp Dress Grn OFF CAP DAC/Wool New Army Cold Weather Cap

ACCOUTREMENTS MERCHANDISE LISTING

AAFES CODE NUMBER	Description
441-300010	AR BLK WEB BELT W/BRS BUC/TIP
441-300550	AR BLK WEB BELT W/BLK BUC/TIP
441-309010	AR BLK ELAST BELT W/BRS BUC/TIP
441-309500	AR BLK ELAST BELT W/BLK BUC/TIP
441-500520	AF BLU WEB BELT W/NICK BUC/TIP
441-500010	AF BLU ELAST BELT W/NICK BUC/TIP
441-500020	AF BLU WEB BELT W/BLK BUC/TIP
441-500030	AF BLU ELAST BELT W/BLK BUC/TIP
443-260020	AR BRASS STD BUCKLE
443-260240	AR/AF BLACK STD BUCKLE
443-260210	AR BRASS RECTGR BUCKLE
443-460020	AF NICKLE BUCKLE
443-460670	AR "MIRROR/CHROME" BUCKLE W/TIP
441-590030	AR/AF BLACK CUMMERBUND/TIE SET-ADJ SZ
441-040810	AR BLK NKTIE 4/HAND-D/W
441-042020	AR BLK NKTIE REDI D/W, METAL CLIP
441-041200	AR/AF BOW TIE RAYON SQ CLIP
441-40010	AF NKTIE 4/HAND D/V
441-440120	AF NKTIE 4/HAND D/W
441-441170	AF NKTIE REDI D/W METAL CLIP
441-441190	AF NKTIE REDI D/V METAL CLIP
441-286070	AR/AF WHT GLOVE CTN-SNAP SM, ED, LG
441-120380	AR/AF TRS BLSR OD ELAST TWIST HOOK 1 PR/CD
447-271050	U.S. ARMY WOVEN LABEL-SUBD
449-489080	U.S. AIR FORCE WOVEN LABEL-SUBD
443-063070	AR/AF ID METAL BEAD CHAIN 2/CD
443-063580	A/AF PLASTIC ID TAG COVER 2/CD
443-063590	A/AF ID CHAIN IN PLASTIC W/2 ID COVERS
442-199040	AF WM'S BLUE TAB SHI160
441-590040	AF MALE CUMMERBUND BLUE SH1160
442-199030	AF FEMALE CUMMERBUND BLUE SH1160
441-041210	AF BOW TIE BLUE SH1160

OUTERWEAR MERCHANDISK LISTING

AAFES STOCK NUMBER	Description
441 219 020	AR Male Blk Pullover Sweater
442 390 020	AR Female Blk Pullover Sweater
441 219 030	AR Male Blk Cardigan Sweater
442 390 030	AR Female Blk Cardigan Sweater
441 408 010	AF Male Pullover Sweater SH 1594 Blue
442 590 010	AF Female Pullover Sweater SH 1594 Blue
441 802 010	Marine Corp Male Pullover Sweater Olive Green
440 230 010	AR Male Jacket w/liner SH 385 Black
442 207 010	AR Female Jacket w/liner SH 385 Black
440 449 010	AF Male Windbreaker Jacket w/liner SH 3356 Blue
440 820 010	Marine Corp Jacket
440 359 040	AR All Weather Coat
440 550 040	AF All Weather Coat SH 3356 Blue

APPENDIX F SPECIFICATION REQUIRED TEXTILE PROPERTIES

NATURAL FABRICS

		HTL-C-43627	412 -C-43468 Type !	HIL-C-43466 Type JI	MFL-C-342 Class A	MIL-C-342 Class B
FARRIC	Generic Name Weave	Duck Plain	Pool in	Popin Plain-wawe w/rib reseat-	Pogl In	Poplin
		•		werp & fill'g	106	106
•	warp Ends/Inch		136 52	106 52	52	52
	Filling Ends/Inch		5.7	-5.7	5.7	5.7
	anight-Min. Oz./Sq. Yd. -Mas. Uz./Sq. Yd.	16.0	6.7	6.7	6.7	6.7
	WIGER	36*-46*-59*	40 yerds	40 yerds	40 yards	40 yeres
	minime fell Length	40 yeres 185	120	100	125	110
	F	165	72	4	12	70 4
	Maima Tear V			Ĭ.	5	4
	Maximum Shrinkage V	2.7	2.0	2.0	2.0 2.0	2.0 2.0
		2	2.0	2.0	2.0	2.0
	Maximum Elongation W				2.0	2.0 2.3
	Heatman Hon-Fibrous Het.	5.6		15.0	2.0 15.0	15.0
	Harman Air Permeability	4.0	15.0	13.0	4	1
Processes:	Singering ? Bleaching ?			_	1	· x
	Hercerizing ?		1	· I	i	ī
	Dyeing ? Printing ?		i	ī		,
	Costing ?	•				
	Fusingt	***	YARA	· Sulphur Black	Vats	Vats
	Dyes Used ? Coating Used ?	Asc			•	
	Infrared Reflect 7		1	1		
	Oder Test ? Nater Repellent ?			4		1
	Numrostatic Resist ?					
	Stiffness ?	1				
	Coating Adhesion ? Coating Distribution ?	*, · · ·				
	Stocking ?	*		1	1	1
	Color Metching ? Labile Sulphor?	•	ī	Ĭ		
	Resistant to Insect					
	Resel ?					_
	Leakage ? Spray Rating ?		3	7 7		
	Colorfestness ?		1	î	ī	1
	pd Test ? Mildow Resistance ?	1			4	
	Resin Finish ?					
	Ballistic Resistance ? Antistatic ?					
	Heat Resistance ?	1				
	flame Resistance ?	•		•		
	Durable Fress Shrink Resistant		•			
	Creese Resistant	•		•		
	Soil Release Treatment Antistatic Finish					•
	Happed					
	Types of Fibers	Cotton	Cetton	Cotton	Cotton	Cotton 100.0
FIRERS	S in Tarm	100.0	100.0		100.6	
	S Tolerance	*				
	Staple Length Denier					
	Tenacity					
	Cross-Section Luster					
	Type wool					
	Grade wool Treatments					
	Type Aramid					
	Carponization Temp.					
	Treatments					
FARMS	Catton Count W					
	F H	Z-Ply	2-219	2. 91y	2-91y	2.Ply or Sinales
	F 1	ž-Plý	2- Soun	Pty or Simples Soun	Spun 2-019	Spent
	Type Yarm W	South - South	Senu	Soun	Spun	Soun
	Careed or Compad W	Carded	Councel		Combasi Combasi	Combad Combad
	•	Carded	Combad	, Lamps		
: NTERCED	ISE	Tents	Campuffee		Clothing and Equipage	Clathing -Equipme
			Clothing	Clocking		

			CCC-C-436 Type 1/Class 1'	CCC-C-436 Type 11/C1ess 1	CCC-C-436 Type 11/Class 2	HIL-C-488 Type I	111-C-404 Type 17
- ABRIC	Generic Teme		Tust1	Twill	fuell	Cafere	Oxtora
	Weave Warp Ends/Inch		3/1 78	2/1 70	2/1 ₹0	130	196
	Filling Ends/Ench Weight-Min, Oz./Se		62 8,5	44 6.5	44	54 6.5	86 5.5
	-Max. 02./Sq		9	•.s 7	6. 5 7	1.2	5.2
	Hidth Minimus Rell Lange					40 tards	40 Yares
	Minimum Break	 F	135	110	110	135	170
	Hintman Tear	4	90	60	60	50	90
	Maximus Shrinkage	F W	2.0		2.0	2.0	2.0
	Max must Elangation		2.0	2.0	2.0	2.0	2.0
	-	₽	,				
	Hasimus Non-Fibrou Hasimus Air Perses		2.0	2.0	. 2.0	2.0 4	2.0 4
Processes:	Singeing ? Bleaching ?		•			E	£ .
	Mercerizing ?					1	ŧ
	Openny ? Printing ?		Yarm Dyed	Term Dyes	Tarm Dyad	1	I .
	Coeting ? Fusing?	•					
	Oyes Used ?		Vets	Yets	Yats	TOCE	Yets
	Coating Used ? Infrared Reflect ?				• .		
	Odor Test ? Water Repellent ?			e			1
	Hydrostatic Resist Stiffness 7	7					
	Coating Adhesion ?				••		1.
	Coating Distribution 1 Coating 7	ps 7					
	Color Matching ?		1	1	x	1	1 .
	Resistant to Insec	t				•	•
	Pagel 7 Lackage 7						
	Spray Rating ? Colorfastness ?		¥	ī	£.	2	:
	pH Test 7 Hidew Resistance	,	ì	i	ž	i	i
•	Resin Finish ?				. •		
	Ballistic Resistan Antistatic ?	ce 7			•		
	Heat Mesistance ? Flame Resistance ?						
	Ouropie Press Shrink Besistant						•
	Shrink Resistant Crease Resistant Soil Release Treat	ment .					
	Antistatic Finish						
	Resped				• .		
FIBERS	Types of Fibers S is Yern		Catton 100.0	Cotton 100.0	Catton 100.0	Cotton 100.0	Cetton 100.0
	% Tolerance Staple Length						
	Denter Tenacity						
	Crass-Section						
	Luster Type Wool	•					
	Grade Hool Treatments				4		
	Type Aramid Carbonization "ema	•	•				
	Treatments						
TARMS	Cotton Count	¥					
	Ply	F	Singles	Singles	Singles	Singles	Singles
	Type form	ş W	Singles Soun	Singles Soun	Singles Spun	Singles Spun	2-Pty Spun
	Carded or Combas	F	Spun Carded	Soun	Soun	Spren	Sawa
		F	Cardes	Carped Carped	Carded Carded	Combed Combed	Compet
INTENDED USE	•		Rettress	Mettress	Matress	Wind	Und
			and P111cm	and - P111ow	and Fillow	Resistant Clothing	Resistant Clothing
			Covers	Covers	Covers	• • • • • • • • • • • • • • • • • • • •	4 - 4 - 1 - 1 - 1 - 1 - 1

	•	CCC-C-467 Class 1	CCC-C-467 Class 2	CCC-C-467 Class J	CCC-C-467 Class 4	UCC-C-419
FARRIC	Generic Hamm	Buries Plain	Burlap Plain	Surlap Plain	Burlan Plain	Duck Plain
	Warp Ends/Inch Filling Ends/Inch Wagne-Min. Oz./Sq. Yd. -Max. Oz./Sq. Yd.		10 9 7.6 8.4	12 11 9.5 10.5	12 12 11.4 12.6	28.7
	High Roll Length Mignam Break W	40° 25 Yards	40° 25 Tards	40° 25 Yards	25 Yards	40 rards 425 345
	Hictour Tear W					3
•	Maximum Shrinkage: W		•			
	Maximum Elongation 4		•			2.5
Processes:	Maximum Mon-Fibrous Mai Maximum Air Permeabilit Singeing ? Sleaching ? Mercentzing ?					4.0
	Dyeing ? Printing ? Coating ? Fusing?					
	Dyes Used ? Coating Used ? Infrared Reflect ? Odor Test ?					
	Hater Repellent ? Hydrostatic Resist ? Stiffness ? Coating Adhesion ? Coating Distribution ?					•
. *	### ##################################		•			
	Repel 7 Leskage 7 Soray Rating 7 Colorfastness 7 pM Test 7 Hildum Resistance 7 Resin Finish 7					
	Ballistic hesistance ? Antistatic ! Heat Resistance ? Flame Resistance ? Durable Press Shrink Resistant Crese Resistant					٠.
	Soil Release Treatment Antistatic Finish Nappud					Catton
FIBERS	Types of Fibers % in Farm % Tolerance Staple Length Denier Tenecity	Jute 100.0	100.0 100.0	jute 109.0	Jute 100.0	100.0
	Cross-Section Luster Type wool Grade wool Treatments Type Aranid Carbonization Temm. Treatments		.*			
YARHS	Cotton Count W					
:	Ply V					2 #19 2-P15
	Type Yarn W					Sour Lour
	Carded or Commed W					Carded Carded
INTENDED U	<u>ध्र</u>	Burlap Bagging	burita Bagging	Burlao Bagging	Eurlan Begas mg	ent ing

			*/L-C-10886	MIL-C-10859	*1112095	CCC-C-488
FARRIC	Generic Name Where	•	Defore	Oxford	Sateen S-Harmess w/2	Suca
	dary Ends/Inch		124	115	Counter 104	70710us
	Filling Ends/Inca		42	. 44	54	YAPIONS
	-Mas. 32./50.	76. 14.	5.2 6.4	4.0	8.1 7.5	Various Various
	digen		V.Q		25*	10-1003
	Manage Bross	•	50 Teres	50 Yarres 100	40 Yards 170	
		ŗ	75 50	65	150	
4	Market Tear	,			4.0 3.4	
	. Michael Strintage	;	1.9 1.0	1.3 1.9		
	Maximal (Tengation	,				
	Hazinya Manufibrasi			20	2.0	5.0
Processes:	Hastmid Ate Persons Stopping ?	HILLS	20 t	20	5.9	
	Bleaching ?		, \$	t		
	Morcorizing ? Dyoing ?			:	i	
	Printing !		•	-	-	
	Coating ? Fusing?				•	
	Dyes Used ?				Vels	
	Coastins used ?					
	Infrared Reflect ?					
	Heter Resellent ?			1	1	£
	Hydrostatic Resist	•			1	t
	Stiffness ? Coating Admesion ?		X			t
	Coasing Distribution	* ?				•
	Blocking ? Color Matching ?					•
	Lastle Sulphur?		•	•	i	•
	Aggistant to Insect	,		-		
	Leonage ? Spray Racing ?					
	Colorfestness !		1	z .	1	
	po Test ?				1	
	Milder Feststance ?					•
	Bailistic Resistant Antistatic ?	• ?				
	Heet Resistance ?					
	Flume Resistance ! Durable Press		3			t
	Shrine Assistant					
	Shrink Appistant Grease Resistant					
	Sell Release Treatm Americant Finish	ert .			•	
	Report					
TISERS	Types of Fibers		Catten	Catton	Catten	Cotton
	% in Yarm % felerance		100.0	100.0	:00.g	100.0
	Staple Longsa					
	Genter Tenacity					
	Cross-Section					
	1					
•	Type week					
	Treatments					
	Type Arabid Careenization Temp.					
	Treements					
- 148.07		•			40/2	
	Ply	į	Singles	Singles	40/2 2 or 3-81y 2 or 3-81y	
		4	Singles Soun	Singles Sout	Salvan	
	Caroud or Cambag	•	Saus	Soun Carded	Soun	
		;	Carded	Cardoo	134044	
HTTHOUGH USE			Clething	Cleaning	Tent age	-
			900 900377	bns energie		Personen

	·		CCC-C-429 Type 1/Class 2	CCC-C-429 Type: [[/Class 2	CCC-C-429 Type 11/Class 3	CCC-C-429 "ppe 11/Class 5	CCC-C-429 Type /Class
FABRIC	Generic Name Heave Apro Ends/Inch		Osnaburg Plain 38	Osmaburg Plain 38	Osnaburg Plain 32	Osnaburg Plain Zā	Osnaburg Plain 38
	Filling Ends/Inch Weight-Min. Oz./So -May Oz./So		24 6.8	24 6.1	26 4.5	24 3.5	22 6.1
	Width Minimum Roll Lange	N	40 Yards	40 Yares	40 Yards	40 Yares	40 Yards
•	Minimus Break	F	60 60	60 60	50 50	40 40	60 60
	TIRIDAD Tear	d F			•		
	Maximum Strinkage	W F				•	
	Maximum Elengation	y F					
Processes:	Hazimum Ren-Florou Hezimum Air Permea Singeing 7 Bleaching 7		12.0	. 4.0	4.0	4.0	4.0
	Parcerizing ? Dyeing ?					•	1
	Printing ? Coating ?	•					
	Fusing? Oyes Used ?		•				
	Coating Used ? Infrared Reflect ? Oder Test ?	•					
•	Heter Repellent ? Hydrostatic Resist Stiffness ?	•	,				
	Coating Admoster ? Coating Distribution Blocking ?	m ?					
	Color Matching ? Labile Sulphur? Resistant to Insact Resel ?	•					1
	Leakage ? Spray Rating ? Colorfastness ? DN Test ?						
	Mildow Resistance 1 Resin Finish ? Ballistic Resistanc Antistatic ?				,		
	Heat Resistance ? Flame Resistance ? Durable Press EPEIRE RESISEME Soil Release Treatm						•
,	Antistatic Finish						
FIRERS	Types of Fibers % in Yern % Tolerance		Cotton 100.0	Cotton 100.9	Cotton 100.0	Cotton 100.0	Cetton 100.0
•	Stable Longth Denier Tenacity Cross-Section Luster Type Hool Grade Hool Treatments Type Aranid Carbonization Tomb. Treatments						
*ARWS	Cattem Count to						
	Ply Y	ı	Singles Singles	Singles Singles	Singles Singles	Singles Singles	Singles Singles
	Type Yarn u	1	Spun Spun	Spun	Sour	Soun	Spun
	Carded or Combed : W	١.	Carded Curded	Spun Car ted Carded	Soun Carded Carded	Soun Carded Carded	Soun Carded Carded
INTENDED USE			Packing Material, Base Cloth For Coating	Packing Material, Base Cloth for Coating	Pageing Material, Sase Cloth For Coating	Pecking Paterial Mi Base Cloth For Coating	Packing Sterial, Sase Clath For Socting

٠			CCC-C-161	CCC-C-461 Type 11	CCC-C-461 Type 111	CCC-C-461 Type IV	CCC-C-462	CTC-C-462 Type 16
FARRIC	Guneric Hame Mpove Mary Ends/Inch Filling Ends/Inch Marytt-Min. 02./54. —Ram. 02./54.		Tud11 3/1 Right 116 56 8.2	Tuttl 3/1 Right 116 56 3.2	Twill 3/1 Left 112 54 8.0	Tuill 3/1 Left 100 54 7.5	Turl1 3/1 Laft 108 54 7.5	Futil 3/1 Left 112 56 8.4
	Hidth Minimum Rell Langth Minimum Break		40 Tards 180 120	40 Tares 160 110	40 Yards 160 110	16 1546 160 110	- 40 Yeres 150 100	13 Tards 170 90-
	Min Hum Tear	u F						1.0
	Yes news Shrinkage	. W	0.1 0. 1	1.0 1.0	1.0	1.0 1.0	1.0 1.0	1.0
	Maximum Elongation	F				2.0	2.5	z.g
	Has tous Hon-Fibrous Has tous Air Formes		2.0	2.0	2.0	1.0	1	t
Processes:	Singerng ? Bleaching ?	•	# #	1 1	1 1 1	i	t t	· t
	Mercerizing ? Oyeing ? Printing ?		1 1	i i	i .	i	ī	t
	Coating? Fusing? Oyes Used ? Coating Used ? [Afrance Reflect ?		Yets	Vals	VALS	YARS	Tets	Yets
	Odor Tott ? Nater Repellant ? Nydrostatic Resist Stiffnes ? Coating Adresion ? Coating Distribut:		·					
	Blocking ? Color Matching ? Labile Sulphur? Resistant to Insec Repol ?		x	1	1	i	ı	x
	Lestage ? Surry Rating ? Colorfastmes ? pt Test ? ntidow Resistance Resis Finish ? Ballistic Resistan Antistatic ? Host Resistance ? Flame Resistance ? Durable Press Shrink Resistant Creese Resistant	K# 7	1	ı	1		t	t
	Soil Release Treat Antistatic Finish Rapped	enth t						
FIBERS	Types of Fibers S in Tarm S Tolerance Staple Length Denier Tenacity		Cotton (OS.G	Catson 100-9	Cotton 100.0	Cotton 100.0	Cocton 100.0	Cotton 100.0
	Cross-Section Luster Type wan! Grade woe! Treatments Type Armid Carbonization Tem Treatments).	-					
TARRES	Cotton Count	W F					•	
	Ply Type Yarn Corded or Combed	¥ F ¥ F	2-P1y 2-P1y Soun Soun Commed	2-P1y Singids Spun Spun Campdd	Singles Singles Soun Soun Combad	Some Campaid	Singles Singles Span Span Cardes Carees	Singles Singles Soun Souh Carded Carded
INTERNED I	व्ह	•	Combas Uniform Fabric	Counted Uniform Fabric	Combad Uniform Fabric	Comment Unitform Fabric	Carded Uniform Fabric	Uniform: Fabric

		MIL-C-10296_	MIL-C-43122 Class 1, 3	#IL-C-43122 Class 2, 4	HEL-C-16290 Type (MfL-C-16290 Type II
FASRIC	Generic Asse Meave	Sateen 5-Herness	Sateun 5-Herness	Sateen S-Herness	Melton 2 up, 1 down	Melton 3 up. 1 down crow foot
	Warp Ends/Inch	55 48	80 40	80 40	right twill 60 55	55 45
	Filling Engs/Inch Weight-Him, Oz./Sq. Yd. -Hax, Oz./Sq. Yd.	9.0	10.5	10.5	1 6 17	22 24 56°
	Hidth				56° 40 yerds	40 yares
	Minimum Rell Langth	40 yards 140	40 yeres 110	40 yeres 110	50	80
-	Minimum Break 4	118	100	100	46	60
	Minimum Tear V	•••	4	6		
	Maximum Shrinkage V	1.0		•	4.0	4.5
	Ham Herem Elangation W	1.0		*	3.0	2.0
		. 1.0	3.0	3.0		
	Maximum Non-Fibrout Mat. Maximum Air Permability	1.0	10.0	10.0		
Processes:	Singering ?	1	1	1		
	Bleaching ?	1 1	2	1		
	Mercerizing ?	1	i	i	Stock	Stock
	Dyeing ? Printing ?		1	A.		
	Coating ?	•			Herdant	Rentant
	Dyes Uses 7	VAES	Yets	. Vets		
	Coeting Used ? Infrared Reflect ?					
	Oder Test ?					
	Water Repollent 7		1	1	1	
	Hydrostatic Resist ? Stiffness ?			1		
	Coating Adhesian ?		-			•
	Coating Distribution ?					
	Blocking ?	x .		z -		
	Color Matching ? Labile Sulphur?	ž,	ī	. 1		
	lesistant to Insect					
	Repol ?	•			*	
	Leakage ?				I	1
	Soray Reting 1 Calorfestness 1	Z.	I		1	. 1
	pH Test ?	1	1	I.	4	•
	Milem Resistance ?					
	Resin Finish ? Ballistic Resistance ?					
	Antistatic ?	•				
	Heat Resistance 7		1	1		
	Flame Resistance ? Durable Press	. *		•		
	Shrim Resistant	•				
	Creese Resistant					
	Crease Resistant	•				•
	Soil Release Treatment Antistatic Florish					
	Report					
		Catten	Cetton	Catten	Mee 1	Ved 1
FIBERS	Types of Fibers S in Term	100.0	100.0	100.0	100.0	100.3
	S folgrance	• .			5.0	5.0
	Staple Length					
	Denter Tenetity					
	Cross-Section	•				• .
	Luster				Pel	led or fleece
	Type Weel Grade Wool				>64'5	>44*\$
	Trestments				decourses (ing	Mehoroofing
	Type Aresid					
	Carponization Tomb. Treatments					
YARKS	Cotton Count	9.5/1				
	Ply (Pile) #	7.3/1 Singles	Singles	Singles	Singles	Singles
	•	Singles	Singles	Singles	Singles Soun	Singles Spun
	Type Yarn W	Spun Spun	Soun Soun	Spun Spun	Soun	Soun
	Carded or Combed 4	Carded	Carees	Carded	Carded	Carded
	F	Cardes	Carded	Cardes	Cardos	Carded
INTENDED U	a	Clothing	Tent	firmen's	favel	Raval Clathing
14.Curen a	2	Fabric	Liners	pants	Stocking	FIGURE

			MEL-C-297F Type E Class 1	MIL-C-297F Type I Class 2	MEL-C-297F Type II Class 1	MIL-C-297F Type II Class 2	MIL-C-297F Type III Class I	MIL-C-297F Type III Class 2
FARRIC	Generic Hann Heave Harp Ends/Ench		Naturai Plain 42	Oyed Plain 42	Natural Plain 42	Dyed Plain 42	Haturaî Plain 42	Dyect Plain 42
	Filling Ends/Inch		36	36	36	36	36	36
	Weight-Min. Oz./S -Max. Oz./S		7.0 8.0	7.0 8.0	7.5 9.0	7.5 9.0	5.0 6.5	5.0 5. 5
	Width	4. 10.		4.0	7.0	7.0	4.3	3.3
	Minimum Roll Leng		40 Tds	40 Tds	40 Yds	40 Yds	. 40 Tes	46 Yds
*	Minimum Break	W F	50 45	50 45	50 45	50 45	58 45	50 45
	Minus Tear	W		••	,		••	•
	Maximum Shrinkage	u F						
	Maximum Elongatio	n. V F						
Processes:	Meximum Men-Fibro Meximum Air Perme Singeing ?		8.0%	8.0%	8.05	8.0%	8.05	8.0%
	Bleaching ?							
	Mercerizing ? Dyeing?			1		. 1		
	Printing 7			-		_		
	Coeting ? Fusing?		•		• •			•
	Dyes Used ?						•	
	Coating Used ?							
	Infrared Reflect? Odor Test?					*		
	Water Regellant							
	Hydrostatic Resis	L 7			-			
	Stiffness ?		I	X.	1	I	£	1
	Coating Adhesion Coating Distribut			,				
	Blocking ?							
	Color Metching ?		·	X .		x		1
	Labile Suiphur? Resistant to Inse	et		x		X		. 1
	Repei 7	••						
	Leakage ? Spray Rating ?							4
	Colorfastness ?					1 .		1
	pH Test ?			5.0-0.5		5.0-8.5		5.0-6.5
	Hildem Resistance Resin Finish 7	7			·			
	Ballistic Resista	nce ?						
	Antistatic 7							
	Heat Resistance ? Flame Resistance						•	•
	Ourchie Press	•						
	Shrink Resistant							
	Crease Resistant Soil Release Trea	tmant	,					
	Antistatic finish							
	Rasped Thickness (Max)							
	(Min)						•	
FIBERS	Types of Fibers		•	•	•	•	•	
	\$ in Yarm		Ma. 2	55 Animal Fiber	Min. 22	S Anthal Fiber	Ma. 25	S Annat Fiber
•	% Tolerance							
	Staple Length Denier							
	Tenacity							=
	- Cross-Section Luster							
	Type Wool							•
	Grade Woel Treatments							
	Type Aranid							
	Carbonization Tem Treatments							
YACHS	Cotton Count	ě						
	Pty	¥	••	••				•=
	Type Yarm	F	1	1	1	1	1	1
	•	Ē	Spun	Spun	Spun	Spun	Spun	Saun
	Carded or Combed	¥	••		•			
		•	**					
INTENDED USE	<u>.</u>		interlining.	Interlining	Interlining	Interi ining	Interlining	Intertining

^{*} Were: Any combination of cotton and polyester or 45% to 100% poly and rest rayon.

	·	CCC-C-446E Type III Class I	CCC-C-AGGE Type III Class 2	CCC-C-446E Type III Class J	CCC-C-446E Type IV Class 1	CCC-C-446E Type V Class L	CCC-C-446E Type #1 Class 2	CCC-C-446E Type VII Class 2
FABRIC	Generic Name Meave Mary Ends/Inch Filling Ends/Inch	Muslin Plain 78 76	Mestin Plain 90 70	Muslin Plain 83 74	. Mest in Plain 18 16	Mustin Plain 56 60	Muslin Plain 64 56	Muslin Flain d5 72
	Weight-Min, Uz., Sq. Yd. -Mas. Uz., Sq. Yd. Width	3.4	2.9	3.0	2.4	3.9	2.4	. 3.1
	Minimum Agil Length Minimum Break V F	40 7ds 46 19	40 7ds 45 12	40 Yds 14 14	40 145 17 20	40 Yus 14 50	40 fds 25 25	10 Tds 15
	Minimum Tear 4 F							
	Maximum Shrinkage is F Maximum Elangation is	9.0 9.0	6.0 6.0	2.0 2.0	9.0 9.0	7.0 9.0	6.0 6.0	6.0
	Fex mum Mon-Fibrous Met.	12.01	2.0%	2.0%	12.04	12.01	2.01	2.08
Processes:	Maximum Air Permeabil's, Singeing 2		£		••,••	•••	x	1
	#lerching ? Mercerizing ? Oyeing?	•	Or Sleach	Or Steach			Or Sye Or Bleach	Or Dye Or Bleach
	Printing ? Coating ? Fusing?	· .	OF BITTERS	OF ETERCH			W GIEGE	OF BIEBLA
	Oyes Used ? Coating Used ? Infrared Reflect? Odor Test?					•		
	Mater Repellent Hydrostatic Resist 7 Stiffness 7 Coating Admission 7							
	Coating Distribution ? Blocking ? Color Metching ? Labile Sulphur?	1	1	1	7.8		I.	z *
	Resistant to Insect Resel 7 Lestage ?		•	*			•	•
	Soray Rating ? Colorfertness ? pM Test ? #11dew Resistance ? Resin Finish ?	z	\$.0-8.5	1 5.0-8.5		· X	5.0-8.5	5.0-4.5
.	Ballistic Resistance ? Antiscatic ? Hhat Resistance Flame Resistance ?							
	Durable Press Shrink Resistant Creese Resistant Fail Release (reatment							
	Antistatic Finish Mapped Thickness (Mex.)							
	(Min)							
FIRES	Types of Fibers % in Yern % Tolerance > pie Length	Catten 100 100	Cotton 100 100	Cetton 100 100	Cetton 100 100	Cetton 100 100	Cetton 100 100	Cetten 100 100
	Deimon Tenacity Cross-Section Luster							
	Type the! Grate too!							
	Treatments Type Aramid Carbonization *rmm, Treatments							
****	Cirrim Coimt W	•• .	••	••	••	••	••	••
	er,	: !	: !	:	1	ï	ï	ï
	Type Yark d	Soun Soun	Saun Saun	1 Soun Soun	l Spun Spun	Spun Spun	Seum Soum	l Saun Saun
	Conded to Command M	Either Either	Elther	Elther Elther	Elther Elther	Either Either	Either Either	Either
TO MINE OF								

			CCC-C-438 Type 1/Class 1	CCC-C-438 Type I/Class 2	CCC-C-438 Type 11/Class 1	CCC-C-438 Type 111/Class (CCC-C-438 Type 111/Class 2
CARRIC	General Tame		Suctran	Buckres	Suctran	Buckran	-
	weave warp Ends/Inch		Plain 52	Plain 43	Plain 50	21am 46	Herringbone Twil
	Filling Engs/Inci	•	44	22	42	47	20
	meignt-Min, Dr./		5.7	5.7	4.5	3.8	12.3
	-Mag. 32./	5 q. 1d.	6.8	7.4			
	angth Annoum 11 ∟eno	et h	40 yards	40 yerds	40 yards	40 yards	40 yards
	Hinimum Break	¥	63	30	60	50	140
	****	F u	54	54	50	40	125
	Minimus "ear	F				-	
	Maximum Shrinkage		2.0	3.0	1.0		•
		<u>f</u>	2.0	1.0	1.0		
	Max Imm Elongatio	on M F					
	Has Imm Non-Fibre	ous Mat.			6.0	3.5	5.0
	Maximum Air Permi	mility			•••	•••	
Processes:	Singeling ?						
	dlesching ? Mercerizing ?				,		
	Dyeing ?						
	Frinting ?						
	Coating ? Fusing?					* *	
	Dyes Used ?	•					
	Coating Used ?						
	Infrared Reflect	1					
	Odor Test ? Water Repailent :						
	Hater Repellent Hydrostal C Resis						
	Stiffnes: 1		x	X	x	. 1	1
	Coating inesion	7					-
	Coating Distribut	f not					
	Color Max ming ?		1	1	1		
	Labile conur?		x	, X	, I	ī	Ĩ
	Resistar to Inse	Kt					
	Leakage						
	Suray 9 19 7						
	Colorfas; iess ?		X	t	X	I	I.
	Hilden Resistance	. 7	1	¥ .	1	I	1
	Resin Finish 7		I.	1			
	Sallistic Resista Antistatic ?	ince ?					
	Heat Resistance ?						
	Flame Resistance						•
	Durable Press						
	Shrink Resistant Crease Resistant					*	
	Soil Pelease I ea	Limen E					
	Antistatic Finish						
	Happed					•	
FIBERS	Types of Cibers		Catton	Cattan	Cotton	Cotton	Cotton
	\$ in Yern		100.0	100.0	100.0	100.0	100.0
	% Taleras :						
	Staple Length Demiss						
	lenacity						
	Cross-Section						
	Luster Type Wool						
	Grade lengt						•
	Treatments						
	Type Armid						
	Carbonization Tem Treatments	٠.					
TARMS	Cutton Count	W					
	Ply	F W	Singles	Singles	Singles	Clastica	Planta-
	• 7	F	Singles	Singles	Singles Singles	Singles Singles	Singles Singles
	Type Yarm	4	Soun	Šaun	Spun	Soun	Soun
	Carded or Comped	٠ ٧	Soun Carded	Soun Carded	Spun Carded	Soun	Soun
		ř	Carded	Carded	Carded	Carded Carded	Carded Carded
INTENDED USE							
TALEBUTY.			interlining	interlining	Interlining	Interlining I	ster i in inq

			MIL-C-483 - Type 1	MIL-C-483 Type 2	MIL-C-483 Type 7	4(L-C-48) Type 9	CCC-C-426
FARRIC	Generic Hame Weave	٠	P11e 5/16*	P11e 1/2°	P11e 1/2"	P11e 1/4*	Orill 2/1 Left Tuill
	Wars Ends/Inch Filling Ends/Inch Weight-Min. Oz./S	q. 1d.	15	20.5	19	14	
	-Max02./5 width - Yinimum Roll Leng - Minimum Break	**	30 Yards	30 Yards	30 Yards	30 Yards	40 Yares
	Stnime Tear			•			2.0
·	Maximum Shrinkage Maximum Elongation	. [2.0
	Maximum Hen-Fibron Maximum Air Ferme			·			10-4
Processes:	Singeing ? Bleaching ? Mercerizing ?						z
	Dyeing ? Printing ?		t	1		x	, , , , ,
	Coating ? Fusing? Dyes Used ?		•	,			Vats
	Coating Used ? infrared Reflect Odor Test ? Mater Repellent ? Hydrostatic Resisi						
	Stiffness ? Coating Admesion ! Coating Distribut	•					,
	Blocking? Color Matching? Labile Sulphur? Resistant to Inso					X.	1 1
	Repel ? Leakage ? Spray Racing ?	••					
	Colorfestness ? pH Test ? Hildew Resistance	7	I.	1	1	i t	z z
	Resim Finish? Ballistic Resista Antistatic ? Heat Resistance ? Flame Resistance ? Durable Press Shrink Resistant Cresse Resistant Seil Relesse Tree Antistatic Finish Neeped	•			~		
FIBERS	Types of Fibers E in term E Tolerance Staple Length		100.0 5.0	100.0 \$.0	Alpaca 100.0 5.0	woof 100.0 5.0	Catton 100.9
	Denier Tenacity Cross-Section						• •
	Luster Type Neel Grade Heal Treatments Type Aramid Carbonization Tem Treatments).	Floors or pulled F >50's,<56's	leace or pulled >50's,<56's	Alpaca Flee >56's	te or guilled >90's,<56's	
YARNS	Cotton Count	W					
	Ply Type Yern	Y F Y	2-P1y Saun	2-P1y Saun	2-Ply Soun	2-21y Soun	Singles Singles Spun
	Carded or Combes	f U F	Combad	Comped	Combad	Combed	Spun Carded Carded
	Cotton Count of Pile Backing (Cotton)	, ,	20/2 16/2	20/2 16/2	20/2 16/2	20/2 18/2	प् रत वृष्य
INTENDED US	L		Cold Climate Lining, Flying Clothes	Cold Climate Lining, Flying Clothes	Cold Clinate Lining, Flying Cleanes	Cold C1 imate Lining, F1 ving Clothes	Clothing

		MIL-C-18387	411C-3760	#1L-C-3760	MIL-C-16375 Type 1	MEL-C-1637S Type 2
FARRIC	Generic Name	Testi		Flannel	Wigan '	Wigan
	Heave	3/3 Right 105		Plais 18	Plase 40	Plain
	filling Engs/Inch	100		12	34	40
•	Henget-Him, Oz./Sq. fd.	4.2		9.0	2.5	J.á
,	-Man. Oz./Sq. 1d. Hidsh	4.6		60*		
	41nimum Roil Length Minimum Break W	40 Yards		40 Yards	40 Yards	40 Yards
	F F	95 60		12 12	35 25	52 28
	Minimus Teer W	•				
	Maximum Shrinkage W	ě.0		6.0		
	f .	2.0	•	4.0		
	Maximum Elangation W			•		
	Maximum Mon-Fibrous Met. Maximum Air Permeability	18-60				
Processes:	Singeing ?	18-00				
	Bleaching ? Mercerizing ?					
	Oyeing ?	I I		Stock		
	Printing ? Coating ?				•	
	Fusing?	•				
	Oyes Used ? Coating Used ?	YACS		•	•	
	Infrared Reflect ?					
	Odor Test ?			•		
	Water Repollent ? Hydrostatic Resist ?					
	Stiffness ?	ž.				*
	Coating Adhesion ? Coating Distribution ?					
	Slacking ?					
	Color Metching ? Labile Sulphur?	1		1 .	1	. 1
	Resistant to Insect	-	,		-	-
	Repel ? Leakage ?	•				
	Spray Mating ?					
	Colorfastness ? pm Test ?	1			1	. I
	Milder Resistance ?			-	-	-
	Resin Finish ? Ballistic Resistance ?		·			
	Antistatic ? Heat Resistance ?					-
	Flame Resistance ?					
	Durable Press Shrink Resistant					
	Crease Resistant					
	Soil Release Treatment Antistatic Finish					•
	Negged					
FIBERS	Types of Fibers			•		
TIBERS	S IN YOUR	Cotton 100.0	Waa 1 80.0	Catton 20.0	Cotton 100.0	Cotton 100.0
	I Talerance Staple Langth					
	Denier					
-	Tenecity Cross-Section					
	Luster					
	Type Weel Grade Wool					
	Treatments		•	Metheroof		
	Type Aramid Carbonization Temm.					
•	Treatments					
TARKS	Cotton Count y					
	F				_	
	Ply W	2-P1y 2-P1y		Singles Singles	Singles Singles	Singles Singles
	Type Yarn y	Saun		Spun	Spun	• Soun
	Carded or Commed W	Spun Carded		Spun Caraga	Spun Carded	Spun Carded
	F	Carded		Carded	Carded	Carded
INTENDED USE		flight		Lining	Clathing	Clothing
		Clathing		Fabric For	Interlining	Interlining
				Firemen's Pents		•
	•			- 446.3		

			CCC-C-446 Type I Class I	E CCC-C-446E Type I Class 2	CCC-C-4466 Type I Class 3	E CCC-C-444 Type El Class I	i Type LE	E CCC-C-446E Type II Class 3
FARRIC	Generic Hame Weave		Musi i Pi an					
	warp Ends/Inch		.64	6	6 60	1	4 //) 12
	Filling Ends/[no Weight-Min. Oz./ -Mex. Oz./	Sq. *d.	, 5. 2		52 . 54 .4 . 2.5		70 \$4 .1 2.2	
	Width Minimum Roll Ler		40 14		s 40 Yds		 Is 40 Yes	
	Minimum dreak	·9¢·	3:	, ,	14 30		12 31	10
	Minimum Tear	Ý	21	•	10 22	•		. 20
	Maximum Shrinkaq	je W F	9.0 9.0					
	Maximum Elongati	on W		•		•	•	
	Maximum Non-Fibr Maximum Air Perm		. 12.01	2.0	S 2.01	12.0	\$ 2.01	2.0%
Processes:	Singeing ?			Or Oy	1 1		II Or Swe	
	Mercerizing ?							
	Dyeing? Princing ?		·	Or Sleac	h ür Bleach		Or Bleach	Or Bleach
	Coating ? Fusing?						•	
	Oyes Used 7 Coating Used 7							
	Infrared Reflect Odor Test?	7						
	Water Repellant						•	•
	Hydrostatic Resi Stiffness ?	st ?						
	Coating Adhesion Coating Distribu							
	Blocking ? Calor Metching ?			•			ı ż	1
	Labite Sulphur?				i i	'	ì	ž
	Resistant to Ins Repel ?	æt						
	Leakage ? Spray Rating ?							
	Colorfastness ?		X	5.0~ 8. 1			1 5.0- 4. 5	2 5.0-4.5
	Mildew Resistance Resin Finish 7	e ?		3.3				
	Bailistic Resist	ance t		•				
	Heat Resistance							
	Flame Resistance Durable Press	7						
	Shrink Resistant Crease Resistant							
	Soil Release Trea				• ,		•	
	Napped	•					•	
	Thickness (Nex) (Min)	,						
						•		
FIBERS	Types of Fibers % in Tarm		Catton 100	Catton 100	Cotton 100	Cotton 100		Cetton 100
	% Tolerance Staple Length		100	100	100	100	100	100
	Denter Tenacity							
	Cross-Section				-		•	
	Type Wool	•			- ·.	•		
	Grade Wool Treatments							
	Type Aramid Carbonization Tem Treatments	.						
YARNS	Cotton Count		••	••		**	••	
	Ply		1	ï	1	1	1	ī
	Type farm	F W	1 Spin	1 Spun	1 Spun	1 Spin	. I Spun	1 Soun
	Carded or Combes	F	Spun Either	Spun Either	Spun Elther	Spun Efther	Soun Eitner	Spun Either
		F	Either	Either	Either	Either	Either	Either
INTENDED USE			Clothing, Flags,	Clothing, Flags,	Clathing, Flags,	Clothing,	Clothing,	Clothing. Flags,
			Equipage Itams		Equipage Items		Equipage (Lams	čaurpage items

			H(L-C-37 Type		C-3730 PO []	- MIL-C-3738 Type	CT0-C-432 C1095 I	CEC-C-4 Class 2.	
FARRIC	Generic tame		Elastim	e Elas	Lique	Elastique	Shoot ing	Sheeting	-
	were Ends/Inch		12		124	138	44	Plain S8	
	Filling Ends/Inch weight-Min. 02./S			4	80 13	96 12	40	48	
	-Max. 0z./S	4. 14.	>60	•	>60°	· >60°	1.1	1.5	
	410 man Roll Leng	th u	50 Tare		Tares 140	50 Yards 130	40 Tards	40 Yards	
	Mains Tear	Ē		Š ·	60	70			
		ï		•				•	
	Hazimum Shrinkage		\$. 1.		6.0 4.0	5.5 3.0	2.0 2.9	2.6 2.0	
	Maximum Elongatio	e u							
Processes:	Maximus Non-Fibro Maximus Air Perme Singeing ?		•				•		
	Bleaching ? Mercerizing ?		•					. 1	
	Dyeing ? Printing ?		Stec	k :	Stock	Stock		.1	
	Coating '								
	Dyes Used ?		Acid, Horston	E' ACID, Mai	rdant	Acid, Mordant			
	Coating Used ? Infrared Reflect	,							
	Oper Test ? Water Regulant ? Hydrostatic Resis	t ?	ĺ				ŧ	τ	
	Stiffness ? Cooting Admesion Cooting Distribut Blocking ?								
	Color Matching ? Lawile Sulphur? Resistant to Insa	ct		t	1	ı	1	I	
	Repei 7 Leakage 7 Spray Rating 7							·	
•	Colorfastness ? pH Test ?			1 1	ı	I I	ı	T T	
	Mildew Mesistance Resin Finish ? Ballistic Resistan						1	I	•
	Antistatic ? Heet Resistance ? Flame Resistance : Ourable Press	,					t	r	
	Shrime Resistan: Crease Resistant Soil Release Treat	re nt							
	Antistatic Finish								
F:EERS	Types of Fibers \$ in Yarm \$ Tolerance		Noo 100.1	9 1	Wee1 00.0 5.0	100.0 5.0	Cotton 100.0	Cotton 100.0	
	Staple Length Denter Tenacity Cross-Section Luster	·							
	Type Moel Grade Moel Treatments Type Aramid Carbonization Teme Treatments) .	Flace or Pulli >70 Macharoufi	's ,	64'5	leace or Pulled >70's Mntheroefing			
<u> 14645</u>	Cotton Count	W F							
	Ply	ý	2-01; 2-01;		-91y -91y	2-81y 2-81y	Singles Singles	Singles Singles	
	Type Yern	, ,	Sout	•	Seun	Saun	Spun	Šaun	
	Carded or Cambod	r v	Spur Camboo	ı Co		Souri Comped	Spun Carent Carent	Sava Carago	
INTERCED USE		•	Compos Uniform Material		mbod rial is	Commed	Clothing and Equipage	Careed Clethims and Equipmen	

	•	HIL =1-10799 Type 1/Class 1	MIL-C-10799 Type 1/Class 3	MIL-C-10799 Type 11/Class	411-C-10799 1 Type 11/Class 3	*16-C-10799 Type 11/Class (HIL-C-10799 Type 11/Class 5
<u> </u>	Seneric Name	Vinyl Coated Plain	Yinyi Coates	Vinyl Coated Duck	Yinyi Coates Ouch	rinyl Coated Dack	vinyl Coated Duck
	derp Ends/Inch						,
	Filling Ends/Inch weight=Min. Oz./Sq. YdMax. Oz./Sq. Yd.	7.0 3.5	14.0 16.0	IS.5 18.5	12.0 15.3	18.6 21.0	22.0 25.0
	width Minimus Roll Cength		£0. Tanga	60 T		68 Yanes	. 60 damas
	Minimum Sceak W	5Q Tards	60 Yards	60 Yaras	60 Tars	60 Yeres	60 fames
	Minimum Tear W						
	Maximum Shrinkage - W F						
	Maximum Elongation W F						
	Maximum Mon-Fibrous Max. Maximum Air Permeability	٠.					
Processes:	Singeing ? Bleaching ?						
	Mercentizing ? Overng ?	x	1	1	1		
	Printing ?	•		•	•		
	Coating ?	1	1	t t	t		1
	Fusing? Oves Used 1	Vats	Vats	Vets	Vets	Yats	Yets
	Coating Uses 7	Vinyl Polymer	Yinyl Polymer	Vinyl Polymer	Yinyi Polymer	Tinyi Polymer	Tinyi Polymer
	Infrared Reflect ? Odor Test ?						
	Water Repellent 7	t	X.		1	1	1
	Hydrostatic Resist ? Stiffness ?	I t	1	1	¥.	I	1 .
	Costing Adhesion ?	i		1	1	1	I I
	Coating Distribution ?	1	I	1			1
	Blocking ? Color Matching ?	1	1	1	1	1	
	Labile Sulphur?	•	-	•	•	-	-
	Resistant to Insect Repel 7						
	Leakage 7						
	Soray Rating 7						
	Colorfastness ?	1	1	1		1	1
	Mildew Resistance ?	t	x	1			
	Resin Finish ?					-	-
	Sallistic Resistance ? Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ? Durable Press	1	x	* X	t	1	· I
	Shrink Resistant						
	Crease Resistant		100				
	Soil Release Treatment Antistatic Finish			•			
	Tapped						
F:BERS	ypes of Fibers	Cotton	Cotton	Cotton	Catton	Catten	Cotton
	1 in Yern 5 Tolerance	100.0	100.0	100.0	100.0	100.0	100.0
•	Staple Length						
	Denier Tenacity			_			
	Cross-Section				*		
	Luster Type Wool						
	Grade Wool						
	reatments						
•	Type Aramid Carbonization Temm.						
	Treatments						
VARRS.	Cotton Count W						
	F						
	aty u						
	Type form W		•				
	Carded or Combed W						
NTERCEO USE	r	•					_
111 10EO 03E		Airpl ane ding	Plastic Parts	insulated Tenting	Recognition Panels	Recognition Page 1s	Recognition Panels
		Covers	Covers				

		4ft -C-15062	M1L-C-2184	MIL-C-29118	CCC-C-440 Type 1	CCC=C=440 Type [[CCC+C-449 Type 111
FAORIC	Generic Name	Flannet		fuill	Chcesacloth		
	Meane	Plain	Flannel Plain	3/1 Right	Plain	Plain	Cheesec lath
	dero (nds/Inch	26	68	110	41-47	26-30	37-43
	Filling Ends/Inch	"	69	47	13-39	22-26	22-28
	weigne-Min. Gz./Sq. 7d.	1.2	8.5	5.7	1.4	.90	1.\$
	-Max. Oz./Sq. ∀d.	7,9	9.5	4.3	1.6	1.10	7.1
	didth	60*	60°				
	Tinimum Roll Length Tinimum Break W	50 Yards	50 Yards	40 Yards	100-200 'ards	100-200 Tards	100-200 Yerds
	f	24 16	55 55	155 55	21 9.5	4.5	18 5
	Minimum Tear d		77	6,5	7.3	*.3	,
				6.5			
	Maximum Shrinkage W		4.0				
	· F		4.0				
	Maximum Elongation - id						
	, F						
	Maximum Mon-Fibrous Mat.			2.0			
Processes:	Maximum Air Permeability Singeing ?			_			
FF70C@55@5:	Sleaching?			x		τ	τ
	Mercerizing ?			X.		•	•
	Oyeing ?	. 1	Stock	î			
	Printing ?	.					
	Coating ?		•				•
	Fusing?						
	Oves Used ?	Actd	Acid	YAC			
	Coating Used ?						
	Infrared Reflect ?			•			
	Odor Test ?						•
	Water Repailent ?						
	Hydrostatic Resist ?						
	Stiffness ?		1				
	Coating Adhesion ?						
	Coating Distribution ?						
*	Color Matching?	*		t		1	1
	Labile Sulphur?	•	•	•		•	•
	Pesistant to Insect	•					
	Hege 1 ?				•	•	
	Leamage ?						
	Soray Pating ?						
	Colorfastmess ?		I I	1			,
	pm Test ?	τ	1	· *		•	
	Mildew Resistance ? Resin Finish ?						
	Ballistic Resistance ?					•	
	Antistatic ?						
	mest Resistance ?						
	Flume Resistance ?						
	Jurable Press					•	
	Shrink Resistant						· · · · · · · · · · · · · · · · · · ·
	irease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
					1		****
FIBENS	Types of Fibers % in Yarn	Heal 100.0	Woof 100.0	Cotton 100.0	Cotton 100.0	Satton 100.0	Catton 100.0
	% Talerance	5.0	5.0	100.0	100.0	100.0	100.0
	Staple Length	3.0	3.0		•	•	
	Denier						
	Tenacity						
	Cross-Section:						
	Luster						
	Type wal	Fleeced or Pulled F					
	Grade wool	>56'5	>60's				
	Treatments Type Aramid	Matheraaf	Mathproof				
	Carbonization Temm.						
	Treatments						
FARNS	Sattom Count W						
	F.	4	4. -				. در
	Ply al	Singles	Singles	2-P1y	Singles	Singles	Singles
	fype farn W	Singles Spun	Singles	Singles	Singles	Singles Soun	Singles Spun
	Specialis #	Spun	nuq2 muq2	Spun - Spun	Spun Spun	Spun Spun	Spun
	Carded or Combed el	Carded	Combad	Combed	Carded	Carded	Carded
	F	Carded	Combed	Carded	Carded	Cardes	Cardes
INTENDED USE		Undercoil ar	Shirting	Radioactive	Polishing and	Polishing and	Polishing and
		Cloth	•	Protective	Cleaning	Cleaning	Cleaning.
				Garments	Fabrics	FADFICS	Faorics
rite 1186		40 444					
<i>i</i> 0k.uH€		27,783	8.584	152	7,583		

			CCC-C-441 Type :/Class l	Type :1/Class 1	7ype 11/Class 2
FABRIC	Seneric Name		Corduray	Corduray	Corourby "M" Type
	deave warm Ends/Inch		"N" Type 29	"Y" Type 40	46
	Filling Ends/Inch		136	126	126
	weight-Min. Uz./Sq.		10.5		
	HIDER				40 Y + 44
	Minimum Roll Longt	٠	40 Tards	40 Yards	40 Yards
	Hinima Sreek	F			
	Hintman Tear	W F			
	Hanless Shrinkage	W		5.0	5.0
		F V		. 3.0	3.0
	Mestmus Elongation	F			
	Heatman Hon-Fibrous			•	
Processes:	Singering ?				
	Bleaching ?			•	
	Mercerizing ? Oyeing ?			1	
	Printing?				
	Coating ?			• • •	
	Dyes Used ?			Yet	Yet
	Coating Used ? Infrared Reflect ?				
	Odor Test ? Water Repellent ?		•		
	Hydrostatic Resist	. ?			
	Stiffness ? Coating Adhesion ?				
	Coating Distributi				
	Slocking ? Color Matching ?				1
	Labile Sulphur?			1	
	Resistant to Insec	t			
	Leakage ?				
•	Spray Rating ? Colorfastness ?		•		1
	pH Test ?			ī	I I
	Hildew Resistance Resin Finish ?	7			
	Ballistic Resistan	ice ?	*,		
	Antistatic ? Heat Resistance ?				
	Flame Resistance 1	1			
	Durable Press Shrink Resistant				
	Creese Resistant		Cotton	Cotton	Cotton
	Soil Release Treat Antistatic Finish		100.0	100.0	100.0
	Happed				
FIBERS	Types of Fibers			•	
	I in Yerm I Tolerance				
	Staple Length			•	
	Denier Tenecity				
•	Cross-Section				
	Luster Type Noel				
	Grade Woel			•	
	Treatments Type Aramid				
	Carbonization Temma Treatments	.			
TARHS	Cotton Count	¥ F			
	Ply	*	Singles Singles	Singles Singles	Singles Singles
	Type Yern	¥	Soun	1 Salum	Soun
	Carded or Commed	£	Spun Carded	Soun Carded	Soun Carded
		•	Carded	Carded	Carded
INTENDED USE	•		Clothing	Clothing	Clotning

			MIL-C-29137A lase Cloth	MIL-C-29137A Alternate	MIL =0 +291 374 Falt	*IL =7.791374 Feit	48(-0-238374
- ABR (C	Generic Name Weave		21ain		Feit-Fabric Campos		
	damp Ends/Inch-		. 42	P141# 40:	••	••	
	Filling Ends/Inc		26	34	••	••	
	Weight-Min. Oz./		4.0	3.5			1.0
	-Man. Oz./ Wigth	24. 16.	4.4	1.9		•	12.3
	Minimum Roll Len	lqt#					40 115
	Minimum Great	* ¥					5 €
	Minimum Tear	F u					.0
	ALL DESIGNATION LANGE.	F				-	
	Maximum Shrinkaq	pa Ü					5.0%
	Maximum Elongati	on V					.52
	Maximum Non-Fibr	ous Mat.					
	Maximum Air Perm					•	
Jrncesses:	Singerng '						
	ileaching ? Mercerizing ?						
	Dyeing?					*	•
	Printing?		•				•
	Coating ?						
	Fusing? Oves Used 7						
	Cuasing Used ?						
	Infrared Reflect	7					
	Odor Test?						
	Water Repailent						
	Hydrostatic Resident Stiffness ?	SC 7					
	Coating Adhesion	•					1
	Coating Distribu						•
	Blocking ?						
	Color Matching ? Labile Sulphur?						£
	Resistant to Insi	**					
	Repel ?						
	Leakage ?					•	
	Spray Reting ? Colorfastness ?						
	of Test ?			•			5.0-4.ù X
	Mildew Resistance	e Ý					3.0-4.0
	Resim Finish ? Ballistic Resista						
	Antistatic 7	suce :					
	Heat Resistance						
	Flame Resistance	7				•	
	Shrink Resistant		•				
•	Crease Pesistant						•
	Soil Release Trea						
	Antistatic finish	•					
	"hickness (Max)		.020•				.060*
	(Min)		.016*				.340*
FIBERS	*rpes of Fibers		Cotton	Rayon	400 l	Rayon and/	
	1 in Yarm		100	100	40	er Caston	
	\$ Tolerance		100	100	40 Min,	Rest	
	Staple Length						
	Denter						
	Tenacity Tross-Section						
	Luster					1	
	Free Wood				Fleece or	1	
					Pulled or	1	
	Grade Mool .				Soth Reprocessed		
					or Reused &		
					Noils	\ .	
	Treatments Type Aremid				Mathproof	1	#9theroof
	Curhonization Tem	в.					
	restments					1	
*4845	Cotton Count					1	
	POCKOM PUBLIC	F		••	••		
	Piy	4	i		••		
		F	ı	••	••	\	
	Type farm	u	Coun	••	••		
	Landed on Compad		Soun Card	••	•• 	= 1	
		ř	Card	••	••	••	
THIENDED HISE			ingerentiae	Inderçoi Lac	inderco i tar		
			THE PARTY OF THE P		relettui (T	Ind erroll tor	adettå () åt

Services of the services of th

BLENDED FABRICS

٠				-C-44031	41L-C-44031 Class I	MIL-C-44031 Class 2	MEL-C-4403 Class 2
FARRIC	Seneric Name				fee 11		Feal 1
		•			2/1 Left		Z/1 Left
	Herm Ends/Inch Filling Ends/Inch				36 54		86 54
	weight-Min. Ca./				é.8	•	7.0
	-Max. 7z./				7.3		7.7
	41dth Minimum 4011 Len				40 Yards		40 fards
	Winimum Break	agen M			200		190
					125		115
	Minimum Tear	•			11		10
	Maximum Shrinkag		•		3 2.0		2.3
		•			2.0		2.0
	Maximum Elongati	OR W			2.0		2.0
	Max Imum . Mon-Fitte	•			2.0		2.0
	Maximum Air Perm	eability			25		:0
³racesses:	ingerng ?				t		, t
	"Bleaching " "ercerizing "				. 1	,	
•	Syeing ?				i		Ã
	Princing ?			Rei	ler or Screen	1	boller or Screen
	Coating ? Over Used ?				•		
	Coating Used ?		Vat Oyes	/Sulphur Bla	ck, Acid Slue	Vet Dyes -/ Sulphur 1	lack, Acid Blue
	Infrared Reflect	?			x		X.
	Gdor Test ? 44ter Repellent:	,					τ
	dyarostatic lesi					•	
	Stiffness ? Casting Adhesion	,					
ř	Coating Distribut					•	
	Blocking ?					•	_
	Color Matching ?				1		t X
	Resistant to Ins	ect	•		-		-
.	Repel ?						
	Leekage ? Soray Rating ?	•			1		
	Colorfastness ?				i		i
· ·	PH (est 7	_			g.		
1	Hilder Resistance Resin Finish ?	2 7					
	Sallistic Resista	ince ?		,			
	Antistatio ? Heat Resistance ?	,				•	
	Flame Resistance						
	Curable Press						
	Shrink Resistant Crease Resistant						
	Soil Release Trea	taert					
	ARTISTATIC FIRITR						
	740ped						
FIREPS	Types of Fabric			Catton	Tylon	Catton	Tylon
	% in Yarn % Tolerance			50.0	50.0	÷0.0	50.0
	Staple Length			*5	1-1/2-	2	1-1/2"
	Jenier				2.25-2.5		2.25-2.5
•	Tenacity Gross-Section				High Round		High Round
	Luster				Semi-dul 1		Samt-dul 1
	Type Wool Grade Wool						
	restments						
	Type aramid						
	Turbonization Tem	.					
MARNS	Cutton Count	•					
	Ply	F 4			Singles		Singles
	•	=			Singles		ing!es
	Type Yarm	4			Soun		ŝaun
	Darmed or Comped				Spun		Spun Carded
		<i>f</i>			Carded		Carded
INTENDED DE			*	Cambuflage L	niform for	Asterproof Compat	lasforme for
			.0-440	Aggdland Art		AREFERROY COMBAC	
ICL : 4E			. +4 =	95,592			
			. 49.3	,,,,,,,			

	•		MIL-C-43488 Type I/Class 1	Type I/Class	VIL-C-43482 Type 1/Class	2 Type :/Cless 2	18-738	15-178 15-178
2) MB4.	isneric temp		Popila Plain	fosila Flain	Poglia Flata	Papilin Plann	2/1 Left	
	Ware Ends/Inch Filling Ends/Inch		104 - 64	104	LQ4	104	*	**
	delentation, Jz./S	e. 14.	6.0	64 6.0	54 6.0	44 5.0	54 6.8	54 6.8
	-Man. 12./S	a. 1d.	4.7	6.7	6.7	5.7	7.3	7.3
	41419		14*	44*	14*	44*	7	:
	Vinters Reil Lane	eh.	(INC IUS	ive of Selvage) 45 Tds.	(Inclus)	ve of Selvaget 40 Yes.	40 745.	40 766.
	Historia Great		165	165	165	165	200	200
		•	76	70	70	70	125	:25
	Hinima tear.	,	4.g 2.g	4.0	4.0	4.0	11 -	ii.
	Yea House Shirtinkage		1.0	2.0 1.0	2.9 1.0	2.0 3.4	2.0	2.0
	-		1.0	1.0	1.0	1.0	2.0	2.0
	Textime (longation	• •	3.0 L.0	3.0	3.0	3.0 1.0	2.0 2.5	2.0 2.0
	Tax least liga-filters		2.0	1.0 · 2.0	1.0 2.0	2.0	*.0	
•	Yes Imm Air Fermo	m ility	1.5	3.5	4.0	4.0	25.0	25.8
}r 9 c 99948 :	Singaing ? Steaching ?		*					•
	"ercerizing !							ι.
	Syering 7		2	1			i	
	Printing ? Cooting ?			•			τ	
	Fusing ?							*
	Dyes Uses ?		Yat & Bisperse	Tet & Binowne	Tet & Bisporte	Tat & Disserve		
	Coating Used ?							
	Infrared Reffect :	7					£	t
	decor depollant ?		3447901	Quarant Ft	uarocarban fyee i	Fluorecarbon Type		
	Hydrostatic Resist	t 7	45, 45, -	45, 45, .	40,40,40	40,40,40		
	Stiffness ? Coating Adhesion !							
	Coating Distribut							
	Stocking ?							
	Color Metching 7		t	. 2	1	t .		•
	Labile Sulphur! Posistant to (nee	et					*	1
	Topol 7	••						
	Leatings !							
	Spray dating ?		109,109,96	100,106,96	100,100.90 80,80,70	196,100,26 80,22,70		
				AP	ter 1 Drycless M			
	Colorfotocos ? po feet ?		5.5-4.5	1	!	!	!	4
	Hider Resistance	7	7.8-4.3	1.5-4.5	5.5-0.5	5.5-4.6	5.5-4.5	5.5-4.5
	Sesta Fintsh 7	_						
	Sailistic Resistan	E0 7						
	Heat Resistance ?				1	. 1		
	Flore Royistance 1		_	-	•	•		·
	Darable Pross							
	Shrint Registant Crease Registant					•		
	Seil Release freet	ment						
	Antistatic Finish							
19595	Types of fibers		Palyester	Cotton	Polyester	Cotton	Tylen	Jetse
	S in farm S Tolerance		50				****	test
				4000	50±58	Test	50%	1000
	Statio Longth		58	Anse Sase	50 <u>+</u> 58 58	Test Test	14	4400
	Stable Longth Denier							
	Stable Longth Denier Tenecity						1-1/2° 2.5	4444
	Stable Longth Denier		5%	Topic			1-1/2-	1900
	Stable Longth Denier Tenecity Cross-Section Luctor						1-1/2° 2.5	
	Stable Longth Denier Tenecity Cross-Section Luster Type Hoot		58 ************************************	Rest Managetically			1-1/2° 2.5	
	Stable Length Denier Tonocity Cross-Section Luster Type Wool Grade Week Treetmants		58 ************************************	Rest Managetically			1-1/2° 2.5	
	Stable Length Denser Tenesity Cross-Section Luster Type Heel Grade Heel Treatments Type Arasid		58 ************************************	Rest Managetically			1-1/2° 2.5	
	Stable Length Denier Tonocity Cross-Section Luster Type Wool Grade Week Treetmants	···· ·	58 ************************************	Rest Managetically			1-1/2° 2.5	
	Stable Longth Denter Tenacity Cross-Section Luster Type Heat Grade Maya Trestments Trype Arabid Carbonization Toma Trestments		58 ************************************	Rest Managetically			1-1/2° 2.5	
1995	Stable Length Denier Tomocity Cross-Section Luster Type hool Srade Heal Trectments Type Arabid Carbanization Tomb		58 ************************************	Rest Managetically			1-1/2° 2.5	
	Stable Longth Denter Tenacity Cross-Section Luster Type Heat Grade Maya Trestments Trype Arabid Carbonization Toma Trestments		Tempercally Srightenes	Memortically Brightened	- 38	eet.	1-1/2* 1-1/2* 2:5 Pound	
	Stable Longth Desirer Tenecity Cross-Section Luster Type Heel Grade Heel Treatments Type Areaid Carbonitzston Tene. Treatments Carbon Count Fly		58 ************************************	Rest Managetically			1-1/2° 2.5	
	Stable Longth Denter Tenacity Cross-Section Luster Lyse Meel Srade Meel Treetmants Treetmants Treetmants Treetmants Conten Count Ply Type Trans	*	SS	Rest Manustically Brightamod 2 1 Soun	2 1 Seem	Resid 2 1 Seen	1-1/2* 2.5 *********************************	1
_	Stable Longth Deater Tenecity Cross-Section Luster Type Neet Grade Mapi. Treetamets Type Arasid Carbon Taxton Tomb. Treetamets Carbon Taxton Treetamets Type Arasid Carbon Count Ply Type Torn	\$	SS Sense Sen	Rest Managet (cally Brightames 2 1 5 cm Soun		Regg Z L Streen Sawar	1-1/2* 2.5 *********************************	1
_	Stable Longth Deater Tenecity Cross-Section Luster Type Heat Srade Mapa: Treetments Type Aread Carbonization Tome. Treetments Type Aread Carbonization Tome. Treetments Type Tome Type Tome	*	SS	Rest Manustically Brightamod 2 1 Soun	2 1 Seem	Resid 2 1 Seen	1-1/2* 2.5 *********************************	1
_	Stable Longth Deater Tenecity Cross-Section Luster Type Heat Srade Mapa: Treetments Type Aread Carbonization Tome. Treetments Type Aread Carbonization Tome. Treetments Type Tome Type Tome	*	SS	Rest Absorbed to ally Brightamed 2 1 Somm Somm Somm Both	2 1 Seem	Resid 2 1 Seen Seen Seen	1-1/2* 2.5 *********************************	ŀ

			MIL-C-21881 Type II/Clas			4(L-C-2188)
	_		•	s 1 Type II/Class	s L. Type [I/Class	2 Type [I/Class
= 48R TC	Generic Vame		Popiin Plain	Poplin	Pop I fa	Poplin
	marp Ends/ Inch		100	91ain 100	Plain 100	21ain 100
	Filling Enas/I		40	40	10	40
	æight-Min, Oz.		4.0	4.0	4.3	4.9
	-Max. ∋z. 4iden	./Sq. Yd.	4.5	4.5 7	4.5	4.5
	Minimum Roll La	ength	'0 Yds.	40 Yds.	40 fds.	40 fds.
	Minimum Break		100	100	100	100
	Marana *	F	40	. 40	40	40
	Minimum Tear	ě F				
	Maximum Shirinka	ige il	2	2	2	2
	Marino Tionas	f ion vi	2	2 2	2 2	2 2
	Maximum Elongat	.104 N	2	2	2	2 2
	"ax imum "on-Fib		•	•	•	•
3	Maximum Air Per	meanlity	•			
amcesses:	Singeing ? Bleaching ?				White X	Wita I
	Mercarizing ?		•	•	WILLE Y	MITCE A
	Dyeing ?		Khaki X	r ki X		•
	Printing ? Coating ?					
	fusing?			•		
	Dyes Used ?					
	Guating Used ?					
	Infrared Reflec	τ:		·		
	dater Repellent	?	•			
	Hydrostatic Res	ist ?				
	Stiffness ? Coating Aghesion	a ?				
	Coating Distrib					
	Slocking ?				•	
	Color :lching ' Labile :ulphur?	?	X.	X	x	X
•	Resistation (n	Lect	•			
	Repe '					
	Leakag '					
	Spray sting ? Colorf thess ?		30,90,80 1	90,30,80	90,90,80	90,90,30
	pH Tes ?		5.0-8.0	5.0-8.0	5.0-8.0	5.0-8.3
	Hildew esistance Resin Finish ?	:e ?				•
	Ballistic Resist	ance ?				
	Antistatio ?	_	•		r	
	Heat Resistance Fiame Resistance			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•	
	Curable Press					
	Shernk Resistant					
	Crease Pesistant				• .	
	Soil Release Tre					
	Napped					
FIBERS	Types of Fibers		On Lunchen	* -**-		
13683	Sim Yim		. Polyester 65	Catton 32	Polyester 65	Cotion 32
	% Taler sace		ĭ		วั	•
	Stable Longth Cenier					
	Tenacity					
	Pross-1 stion		·			
	Luster Type Appl				•	
	Snade Wool					
	Treatments		,			
	Type Aramid Carbonization Ten					•
	Treatments	···	•			
TARHS	Catton Count	a				
		F				
	Ply	3	1	1	1	1
	Type farm	\$ 2	l Spun	l Saun	1 Soun	i Toug
	••	5	Som	Spun	Soun	Spun Spun
	Canded on Comped			Combed		Comped
		-		Comb ed		Comped
CHTENDED HISE			Yaval Shirts	level Shirts	Neval Chirts	Nevel Shirts

			MIL-C-21881 Type [II/Class]	MIL-C-21881 Type III/Class I	MiL-C-21881 Type III/Class 2	MEL-C-21881 Type III/Class 2
FABRIC	Generic Name		Poplin	Poplin	Poplin	Poplin
	46 54 6		Plain	Plain 105	Plain 105	Plain 105
	ward Ends/Inch		105 55	55	55	55
	Filling Ends/Inch Weight-Min. Oz./Sq.	. Yd.	4.7	4.7	4.7	4,7
	-Max. Oz./Sq.		5.3	5.3	5.3	5.3
	width	_	? 40 Yds.	? 40 Yds.	. ? 40 Yds .	40 Yds.
	Minimum Roll Length Minimum Break	ี	150	150	150	150
		F	70	70	70	70
	Minimum Tear	¥ F			_	
	Maximum Shrinkage	W F	. 2	2	2	2 2 2
	Maximum Elongation	W F	2 2	2 2	2	2
	Maximum Non-Fibrous		•			
³ rocesses:	Maximum Air Permeal Singeing ?	SILICY			.	
	Bleaching ?				**	
	Mercerizing ?		•	•	Green X	Green X
	Oyeing ?		Tan X	Tan X	West 4	a cen v
	Printing ? Coating ?					
	Fusing ?		•			
	Dyes Used ?					
	Coating Used ?			• .		
	infrared Reflect 1 Odor Test ?					
	Water Repellent ?		x	x	X	
	Hydrostatic Resist	?				
	Stiffness ?					
	Coating Admesion ? Coating Distributi	on ?				:
	Blacking ?		x	x	X.	1
	Color Matching ? Labile Sulphur?		^	. •	•	•
	Resistant to Insec Repel ?	t '				
	Leekage ? Spray Rating ?		90,90,80	90,90,80	90, 90, 80	90,90,30
	Colorfastness ?		1	X	x	1
	pH Test ?		5.0-8.0	5.0-8.0	5 3-8.0	5.0-8.0
	Mildem Resistance	?				
	Resin Finish ? Ballistic Resistan	ce 7				
	Antistatic ?				•	
	Heat Resistance ?					
	Flame Resistance ?		•			
	Durable Press Shrink Resistant		•			
	Creise Resistant					
	Soil Release Treat	ment				
	Antistatic Finish					
	W , 180					
FIBERS	Types of Fibers		Polyester	Cotton	Polyester	Catton
	% in Yarn		65 3	32	65 3	32
	% Tolerance Staple Length		3	•	•	
	Jenier Cenyth					
	Tenacity					
	Cross-Section					
	Type Hoo!					
	Grade Wool					
	Treatments					
	Type Aramid Carbonization Temp	•				
	Treatments	•				
YARNS	Catton Count	u				
	Ply	¥	1	1	1	1
	•	F	Ī	i		· ·
	Type Yarn	W F	Spun Spun	Soun Soun	Spun Spun	Spun Soun
	larged or Comped	r u	nuqe	Combed	3744	Comped
		F	*	Comped		Comped
INTENDED US	<u>ε</u>		Swimming Trunks	Swimming Trunks	Swimming Trunks	Swimming *runks

			#16-6-43191 - Class 1	ML-C-43191 Class 1	ML-C-43191 Class_{	411-C-41191 - 31ess 2	ML-C-43191 Class 1	MIL-C-43191 Class 3
FARRIC	Generic Name			Sacoon		Satem		Satoon
	Weave Wars Ends/Inch		•	5-Herness		5-Herness		5-Harness
	Filling Engs/Inch			126		126 72		126
	Jerghe-Min. Oz./Se -Man. Oz./Se	. 16.		8.5 9.0		1.5		8.5
	width					1.0		9.0
	Minimum Anil Langt: Minimum Break	N U		50 Yerds 225		50 Yards 225	•	50 Yards 225
		F	•	225		225		225
	Hinston Tear	u F	•	•		•		
	Heatens Shrinzage	¥		2. 0 2.0		6.5 6.5		2.0
	Nestwo Elengation	, i	•	2.0 2.0		2.0 2.0	•	2.0 2.0
	Resident Rea-Fibresi			2.3		2.0		2.0
₩ecesses:	Maximum Air Permedi Singeing ?	111147		. 7.0		7.0		7.0 1
	Bleaching ?	•		_				
	Morcorizing ? Desing?			1 1		1	•	2
	Printing ? Coating ?							Mailer or Screen
	Fusings							
	Dyes used ?			AC10/Yes		Acid/Tel		Acte/Vat Vat/Suigmar Black
	Cooting Used ? Infrared Reflect?		•	1				
	Odor Test? Mater Repoilent		•			1		1
	Hydrostatic Resist	1		1		i		i
	Stiffness ? Coating Adhesian ?							
	Coating Bistribution	a 1						
	Blocking ? Calor Matching ?							1
	Labile Sulphur?					1		i
	Resistant to Insect - Resel 7							
	Leakage 1							
	Spray Rating ? Colorfostness ?			1	•	1		1
	pM Test 7		•	• • • • •		ž		1 8
	Milder Resistance ? Resin Finish ?							
	Bollistic Mesistane	• 7						
	Antistatic ? Meat Resistance ?			•				
	Flame Resistance ! Durable Press							
	Shrine Resistant						•	
	Flame Resistance ?							
	Durable Press Shrink Resistant							
	Crease Resistant							
	Seil Release Treeton Antistatic Flaigh	mt						
	Nessed							
FIBERS	Types of Fibers		Cotton	Ivian	Cotton	, Aylan	Paka.	
	S In Tarn		50	39	50	50	Cettee 30	nofyr. 50
	% Tolorance Staple Longto		-•	1.5°	-5	• • • • • • • • • • • • • • • • • • • •	-5	•9
	Denter		1	2.25-2.5		1.5° 2.25-2.5		1.5° 2.25-2.5
	Tenacity Cross-Section		{	High Round		High		High
	Luster		1	Semi-dull		Round Sami -dui 1		Round Sent-du l 1
	Type weel Grade weel		.}					2011
	Treatments		1					
	Type Armoid Carbonization Tom,		1					
	Treatments							
YMERS	Cotton Count W							
	Ply u			Singles Singles		Singles	•	Sinetes
	Type form y		1	Soun		Singles Soun		Singles Soun
	Carded or Compas W			Soun Cardod		Spun		Saure
	-			Carees		Carded Carded		Cardes Cardes
INTERDED USE	•	Vind	and Thormal Win		Wind	and Thermal		first and Thermal
			Fosistant Clothing	Resistant Clething		Posistant Clothing		Mesistant Clothing

			MEL-C-21115 Type !/Class	*tL=C-2111\$ **po 1/01444 2	41L-C-21115 **po	49L-C-21115 Type [[1/0]ess]
FARRIC	Seneric tame		Tropical Cloth	Tropical Cloth	*ropical Cloth	"rosical Cloth
	we ave		P1418	Plain	Plan	21418
	darm Ends/Inch	,	50 46	14 46	54 42	56 42
	metant-4th, Jz., S	ia. 74.	6.4	5.5	5.5	5.5
	-Mam. Oz./S	ia. 1d.	7.1 41a, 50*	#1n. 60°	5.1 41n. 60°	5.1 418. 60°
	Hinimum Roll Lang	1871	50 *ds.	50 Tds.	10 Yds.	50 rds.
	Hinima Breat	¥	55	50	100	139
	Tintma "ear		50	10	90	10
		ē		•	•	
٠.	Maximum Shrinkaga	, ,	4.5 3.0	4.0 3.0	2.5 2.0	2.5 2.3
	Maximum Elongatio	n d	3.0	1.4	1.0	•
*	"as ima ton-fibre	, F				
	TALINA AIR PORCE					
Processes:	Singaine 1				t	τ
	Sleaching *					
	Marcerizing ? Stock Oyeing ?				1	
	Petating ?		•	•	•	•
	Coating ?					
	Dves Used ?		Yartous	Yarlous	Various	7ar1ous
	Coating Used ?					
	Infrared Reflect Open Test ?	:				
	water Repullant 7					
	Hydrostatic Pasis	£ 7				
	Stiffness 7 Coating Adhesion	,				
	Coating Distribut					
	Stocking ? Color Matching ?		_	_		_
	Labite Sulpourt		1	t		1
	Resistant to Inser	ct				
	Repel ? Leanage ?					
	Spray Pating ?					
	Calorfastness ?					
	Pildew Resistance	•	5.5 4.5	5.5-8.5	5.5-4.5	5.5-4.5
	Resin Finish ?					
	Ballistic Resister Antistatic ?	nce ?				
	Feat Resistance 7					
	flame fesistance : Curable Press	7				
	Surable Press					
•	Crease Pesistant					
	Soil Release Treat			•		•
	TADDOS					
9EP\$</td <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td>	•					
-::sfa2	Types of Fibers % of Farm		woel 95	#90 î 75	icel 40 Min.	Polyester 55 414.
	1 folgrance			**		••
	Stable Length Senser			••	••,	. 1.
-	enecity					
	Cross-Section		•			
	Luster Type Wool		Fleece or Fulled	Fleece or Fullee	Fleeck or Fulles	
	Grade wool		64's Min.	54's 41m.	54'\$ "*R.	
	"reatments "yoe Aramid		Macharoafing	*stranofing	Matheroefine	
•	Carbonitation (was) .			•	
	Trestments					
*1945	Catton Count					
		F				
	31 _V	•	:	?	2	:
	"you farm		2 Soun	Sauc		ioun
		F	South	Soun	ioun.	Soun
	Jarded or Compad		Compart Compart	Compadi Compadi	Compad Compad	
4754060 "SE						_
0170EB 11			Shirts Coats	*eczt1e	Shirts	Enirts Coass
	•		"rousers		rousers	Trousers

		WCL-C-21115	41-C-21115 *## (11/C1448 2	411221118 2-40 (11/01458)	411-C-21115
PARTE	Generic 1888	freescal Cleth	Trentcal Closs	Treptest Class	Tropical Cloth Plain
	Mare Engalines	Plain SS	71ain 55	- Plain 50	30
	Here Enes/Inch Filling Enes/Inch	4 6 5.3	. 40 5.0	14 6.1	14 1.1
	anight affn. Oz., Se. Ye.	-	••	4.8	1.8
	viden Vintega dell Langen	64° ≪1n. 50 7€8.	44° 1918. 50 762.	60° 410. 50 766.	50° 410. 50 745.
	Matria Break V	٠	70	100	109
	Winters took	4			-
	Vacroup Surfritage V	4.3	4.0	2.5	2.5
	Testens (langetion 4	1.0	3.0	2.0	:.5 :.3
	THE THE THE PARTY SEC.				
	Heatings Air Fermossility		4		
***********	Singering ? Bleaching ?	•	•		•
	*ercertzing ? Stack Oyerng ?	1.1		1	
	Printing ?	• •			
	Coating ?				
	Dyes Used ?	farteus	7471005	Tarrous	Terfous
	Casting Used ? Infrared Reffect ?				
	Odor Test ? Weter Reselfont ?	•			
	Hydrostatic Resist "				
	SETFFness ? Coating Admission ? Coating Distribution ?		•		•
	Coating Distribution ? Blocking ?				
	Seler Metching ?				1
	Labile Selphort Resistant to Insect	*			
	Fosei ? Lassage ?				
	Sarau Antina ?		_	_	
	Calerfastness ?	5.5-4.5	1.5-4.5	5.5-6.5	1.1-1.1
	gu Toss ? Mildon Resistance ? Rosin Finish ?				
	Ballistic Resistance !				
	incistatic ? Meat Assistance ?				
	Flama Resistance ? Surmie Press			•	
	Surint Assistant				
	Crease Registant				
	Smil Release Treatment Antistatic Finism				
	14000				
FISERS	Types of Fibers S of Yern	appl 40 Min.	Pelyestar 55 Min.	. 40 Min.	Polyester 55 Min.
	& felerance Stanie Langth	***	*** **		-4 1*
	Conter	-	•	_	•
	Tenecity Cress-Section				
	Luster Type week	fices or fulled		Floate or Pulled	
•	3-100 vani	44's 71a.		54's Ma.	
	Treetnants Type Arasid	techeroof fing		Authorisofing	
	Carbonization famp.				
2494	Catton Count 4				
	2	•	_	_	•
	21y 4	i	i	. :	1 2
	Type Yern 4	South	South South	Spun Spun	Seum Seum
	Carden or Common	1000		Company	
	•	Special		; 	
ALEADED 25		10041100	*9CE C 100	Shirts Coets	Thirts Coass
				"restore	***************************************

•			CCC-C-430 Style A, Type I Class I	CCC-C-430 Style A, Type 1 Class 2	CCC-C-430 Style A, Type if Class 1	Style A. Type II Class 2
FARRIC	Generic Hame		Hestin	Mustin	Mest in	, Muslim
	Heave Min. Harp Ends/Inc	_	Plain 68	Plain 74	Plain 74	Plain 74
	Min. Filling Ends/		72	49	46	. 69
	Height-Min. Oz./Sc -Man. Oz./Sc		4.7	4.8	4.5	4.6.
	HIGER		7	?	1	•
	Hinimum Roll Longi Hinimum Break	th u	50 Yes. 70	50 Yes. 70	50 Yes. 70	. 50 Yds. 70
		ř	70	70	70	70
	Minimum Tear	U				•
	Haximum Shrinkage	•	••	. 2.0	-	2.0
	Manteum Elongation	F. W	•••	2.0	-	2.0
	•	F				
	Hazimus Hen-Fibros Hazimus Air Person		12.0	12.0	4.6	4.0
Processes:	Singeing ?					
	Bleaching ? Marcerizing ?		No	No	white I	write t
	Dyeing ?		•		1	£
	Printing ? Coating ?		•			
	Fusing ?					
	Dyes Used ? Coating Used ?					
	infrared Reflect 1	?				
	Offer Test ? Hater Recellant ?					
	Hydrostatic Resist	1 1				
	Stiffness ? Coating Ambasion 1	,				
	Coating Distributi					•
	Blocking ? Color Matching ?		1	1	1	1
	Labile Sulphurt (1		1		1	
	Resistant to Insec Repel ?	; t				
	Leakage 1					
	Spray Rating ? Colorfestness ?		z z	2		İ
	pH Test ? Hilden Resistance	•	5.0-8.5	5.0-4.5	5.0-4.5	5.0-4.5
	Resin Finish ?					
	Bellistic Resister Antistatic ?	nce 1				
	Heat Resistance ?					
	Flame Resistance Durable Press	7				
	Shrine Resistant					
	Crease Resistant Soil Release Treat					
	Antistatic Finish					
	Nasped					
FIBERS	Types of Fibers		Cotton	Cotton	Cetten	Cotton
	% of term % Telerance		100	100	106 9	109 g
	Staple LangeR		·	•		
	Denter Tenacity					•
	Cross-Section Luster					
	Type Hoel					
	Grade Neel Treatments					
	Type Aramid		·			
	Carbonization Temp Treatments).				
TRAKS	Cetton Count	y				
	Plý	Ÿ				
	Type Tarm	í	Spun	Spun	Spun	Saun-
	• • •	F	Spun	Spun	Spun	Spun
	Carded or Cambed	¥ F	Carded Carded	Carded Carded	Carded Carded	Carded Carded
INTENDED USE	•					
USV US	L					

	.*	Style 8, Type 1	CCC-C-430 Style 8, Type 1 Class 2	Style 6, Type II Class L	Style 8. Type II Class 2	
FARRIC	Generic Name	Mes 1 In	Musica	Muslin Plain	Mys] in Plain	
	Heave Him. Herp Ends/Inc.	Plain 64	Plain 70	64	70	
	HIR. Filling Ends/Inch	ü	63	60	63 4.1	
	Hes. Oz./Sq. Yd.	4.1	4.2	4.0	••	
	Width	. 7	7		† 50 Yes.	
	Hinimus Roll Langth	50 Yes. 55	50 Yes. 55	50 Yds. 55	55	
	Hintown Break W	55 55	55	55	55 .	
	Minimum Toor W		•			•
	Hastimum Shrintage V	••	2.0	-	2.0 2.0	
	Hazimus Elongation W	•	2.0	-		
	F			4.0	4.0	
	Hazimus Hen-Fibrous Het Heninus Air Perseabilit		12.0			
Processes:	Singering ?	,	_	1040a P	wite I	
	Bleaching ?	. **	**	white I or	or	
	Marcerizing ? Dyeing ?		•	¥	1	
	Princing ?					
	Coating ? Fusing ?					
,	Dyes Used 7		•			
	Coeting Used ? [efrared Reflect ?			•		
	Oder Test 7					
	Water Repellant ? Hudrostatic Resist ?					
	Stiffness 7					•
	Coating Admesion ? Coating Distribution ?					
	Slecking ?		•	1	1	
	Color Matching ? Labile Seigher! (If Bye	1 1	:	i		
	Resistant to Insect Repel 7	-				
	Leakage ? Saray Rating ?		_	•		
	Colorfostness ?	5.0-6.5	5.0-6.5	5.0-8.5	5.0-8.5	
	Milder Resistance ?	3.4-0.3				
	Resin Finish ? Sellistic Resistance ?					
•	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ? Durable Press		•			
	Shrink Resistant					
	Crease Resistant Soil Release Treatment	•				
	Antistatic Finish	•				
	Napped	,				
FIBERS	Types of Fibers	Cetton	Cotton	Cotton 100	Catlon 100	
	£ of Yarm £ Tolerance	100	100			
	Staple Longth					
	Denter Tenecity					
	Cross-Section					
	Luster Type Mooi					
	Grade Moof			•		
	Treatments Type Aramid	•				
	Carbonization Temp. Treatments					
TARKS	Cetton Count H					
	Ply W				_	
	Type Yarn V	Spun	Soun	Snyn Søvn	Souri Souri	
	F Carded or Combad W	Souti Cordad	Spun Carded	Carded	Carded	
	f Cartal	Carded	Carded	Carded	Carded	
INTENDED U	SE					

INTENDED USE

		CCC-C-438 Style C. Type II Class t or ?	CCC-C-410 Style 0, Type ti Class 1 or 2	CCC-C-430 Style 0, Type it 	CEC-C-438 Style E, Type II Class I or I	Coc-c-ase Style E, Type of Class 1 or 7
- AGE IC	Capacite trus	Percaie Plane	Porcale Plain	Percale Plain	Percale Place	Percale Plane
	dara Emay Inch	**	19	16	**	**
	Filling Enga/Incm warget-min, Uz./Sq. rd.	42 1.5	32 3.5	42 1.5	92 3.5	. az 1.5
	-4en, 38./50, 16.	3.3 ••	3.3		***	••
	diamen soil League	4			4	
	finition foor d		, 46	44 44	44 44	16 65
100	. · · · · · · · · · · · · · · · · · · ·					
(61000 5) Manage Shrinkage 4	1.0 · 2.6	2. 8 2.0	2.6 2.0	2.9 2.6	8.9 8.5
	Pastmin Classiction is					
	Testes the forest ret.	4.0	. 6.0	6.6	6.8	6.6
Pecesseli	Singerny ? Sleaching ?					
	Marcarizing ? Oyeles ?					
	Printing ?					
	Cooking ?		• •	*		
	Dyon Used 1					
	Cooting Used ? Infrares Reflect ?					
	Oder Tost 1					
	Water Aspellant ? Hydrostatic Assist ?					
	Stiffness ? Coating Assetion ?		••	•		
	Coating Distribution ?				•	
	flocking ? Calor Macroling ?					
	Cabile Sulpour? ([f Dyes) Resistant to Insett			1		
	Report 7 Leakage ?					
	Spray facing ? Colorfostness ?					
	ps fore ? Milden Resistance ?		. •			•
	Segin Finish ? Sellistic desistance ?		•		-	
	Antistatic ?					
	Meet Mesistance ? Flame Mesistance ?		•			
	Durable From Shrine Registant					
	Crease Resistant				•	
	Soil Release Treatment Antistatic Finish					
	Meaged					
FIREES	Types of Fibers S of Term	Cotton 100	Polyester 45	Cotton Anst	Polyostar	Section
	\$ Telerance	Ğ		Rest	90 2	tost Aest
	Stable LangeR Denier		,			
	Tenacity Cross-Section		•			i i
	Luster	*				•
	Type Meet. Grade Meet					
	Treetmints Type Arasid					•
	Carbonization fond.					
- 1045	Cotton Count V					
	Ply					
	Type ten u	Sour	,		,	•
	Corded or Codesia of	Sever Common	,	j .	:	•
		Cambrid	÷	į	Ť	•

. STEMBER 175E

			JCC-C-430 Style F. Type II 11368 Lon 2	CCC-C-430 Style f. Type Class Lon S		111-0-82 1498 i 21455 2	Type (#IL-C-d23 7ype [
ARRIC	JAMAPTO TAME HEAVE		² ertale ²¹ 4in	Percale Plain		Sergi Jp. 2 Jour. Ss Algnt Tuill	2 40	Serge , 2 Dawn, se Alght Twill
	wern Ends/Inch Filling Ends/Inch weight-Min, GE./Sd. .*am. DE./Sd. width		56 60 3.3	58 50).8	64 54 11.6	1 10	0 64 4 64 3 (0.1	70 58 3.6
	Minimum Rell Longist Minimum Break Minimum Fran	:	65 65	65 v3	50 7ds. 110 100	50 rds	. 50 Tes.	50 rds. 100 30
(Class 2) Makimum Shrinkagu	•	2.0 2.3	2.0 2.0	4.Q 2.\$			5.0 3.0
•	Tax Imax Elongation	*						
Pricesses:	Maximum hom-Fibrous Maximum Air Permeani Singering? Slesching? Arcertzing? Stock Cyerng?	TRE, ilicy	5.3	6.0		,		ı
	Printing ? Coating ?				•	•	•	•
	Fusing ? Jyes Used ? Coating Used ? Infrared Reflect ? Oder Test ? Hater Zeodellent ? Hydrostatic Resist ? Stiffness ? Coating Admission ?				fortous	Y Ay town	s Various	Ter tous
	Coating Discribution Slocking ? Color Matching ? Lanie Sulphor? (If Resitant to Insect Repol ? Leakage ?		ŧ	t	ŧ		: x	ı
	Soray Rating? Colorfatness? colorfatness? oil Test? Hildow Resistance? Resin Finish? Zalilistic Resistance Antistatic Resistance? Heat Resistance? Durable Press Shrink Resistant Cresse Resistant Consus Resistant Consus Resistant Sali Release Freatmen Antistatic Finish Neocod	•			1 5.5-0.5	5.3- 6. 3	-	t 1,5-0,5
FIBERS	Figes of Fibers 8 of Tarm 8 Tolerance Disable Length Omnier Foracity Gross-Section Luster		Folymster 50 +3	Cattom Rest Rest	40a i 99 41 n Inga	-coel 25 Ytn:m _e m	almo 1 95 41 n tanan	460 (95 414 (460)
	Type wool Vinimus Grade				- 501s	rece on fulled 5015	"1eec# o	r Pulled 6214
	Freatments Type Arsend Tarbonization Type, Treatments					Mathorned ing	•	th eroo fing
*4895	Tottom Fount 4		•					
	aly g			*		:	2 2	2
	Type turn d f Cardes or Comment w		, , ,	!	Spur. Spun Combed	nua. Trun (maad	Soun Tourn Commad -	Spuin Spuin Chimberl
attaced 155	•	•			Conned Service, Sent-Orese & Joses Uniforms	Comments [arring, [cost-Droop & [roops Uniforms]	Combed Service, Sent-Orces & See Orass Oniforma Gres	Commed Service, H-Oreșe & Is Milforne

	•	491C-42 Type 1 	3 - 41L-C-423 Fyso I Class 8	nez-c-eza Typo (1 Class 1	Type 11 Class 1	MPL-C-423 Type II Class 2	ME-C-823 Type Li Class 2
CARRIC	Seneric 1600 enere	Serge	Sarque 2 Um. 2 Dans Grange Right Fuill		jorge o, 2 Open Right Fuill	Sarge 2 Ue.	Sorge 2 dans 81gst Tuttl
	Harm Ends/Lnctr	. 74	70	7			21,000
	Filling Ends/Inch		.62				
	Herent-Min. 02./Sq. 16.	7.7	2,7	11.6	11.5	18.3	10.3
	414th	10 · Hia.	€ Rin.	60° 710.	60° 110.	60° Ma.	60° 41#.
	Minimus Reil Langth	50 700.	50 764.	50 700.	50 100.	50 761.	50 'es.
	Tinings Sreek U	90 70	96 70	1.35 120	135 120	120 110	120 110
	Windows Tour	70	79	129	LOW	110	110
			5.1		_		
	. Tastmat Shrinkaga - V	5.0 3.0	· 5.0 3.0	4.0 2.5	8.0 2.5	4. 0 2.5	1.a 2.5
	Name (Tampetten d	3.4	3.6	6.7			
	· · · · · · · · · · · · · · · · · · ·						
	Testine Ten-Fibrore Hot. Testine Air Personality			•			
*******	Singuing ?						
	Steaching 1	•					
	mercanteing ?						
	Stack Dyeing ? Printing ?	1	ŧ		•	t	
	Coating ?						
	Fuelng ?						
	Oyes Used 1 Coating Used 1	Tertous	Tertout	Tar louis	Tertest	10-laus	Tarious.
	Infrared Reflect 1	•					
	Near Test ?				•		
	Heter Repellent ? Huprestatic Resist ?						
	Stiffness ?		-				
	Coating Adhesian ?						
	Coating Distribution ?						
	Color Metching ?	1		1			ι
	Labile Sulpour?	_					
	Resistant to Insect						
	Leanage ?						
	Serry Reting ?	_	_		_	_	_
	Colorfestness ?	1 1,5-a,5	أعموا	4.64.5	5.5-0.5	5.5-4.5	5.5-0.5
	"Hidde Resistance ?	***************************************	, 	2.5-015	7.0-4.0		• • • • • • • • • • • • • • • • • • • •
	Resin Finish ? Ballistic Resistance ?						
	Antistatic ?					•	•
	Heat Resistance ?						
	Fiame Meststance T						
	Durable Frees Durink Resistant						
	Crease Resistant		•				
	Sell Release Treatment Antistatic Flaten						
	Personal Control Control						•
19685	Types of Fibers 5 of Form	tan)	Mani	Nee I	Bylon	Heal	Hyles
	1 felerance	77 Finance	77	90-45 99-45	Post	49-45 88-45	Fest
	Stante Lamen		***************************************		-		••
	Senser Fenecity						
	Cross-Section						
	uster						
	Type weel Minimum Grade weel	flees	or fulled Fi	Page or Pailor	Floore	or fulled	
	freetments	Methorcof Ing	Hethereof Ing	60's Totagrapfing	_	68°1 Kharaafing	
	Type Arenie Carbonization form.				_		
	Treatmets						

·MA	Cotton Count y						
	21y w	2	ž	2	2	,	
		į	į	í	í	í	2
	Type Yarre &	Spen	Seven	Spree	South	Soun	Saus
	Carded or Combas u	Spige Compan	Spun Common	Spun Combad	Saure	Seen	Saura
	,	Combas	Carpes	Campos		Compag	
INTERNET ISE		Service,	Sarrica		•		
		Sant-Grees &	Sent-Gross &	5	Service I-Oracs &		Service Front &
		Dress Uniforms	Grees Uniforms	37961	in forms	2999 2	

			HL-C-82 Type III Class L	ML-C-623 Type III Class I	· MFL-C-81 Type () Class ()	t type iff	- 41C-C-423 1 :0 111 Class 1	111,-C-423 Type (11 Class)
: MIC	ioneric tem Mara		Serve 4 He	Sorge E Up. 2 Coun mags Aight Tuill	Sarqa 2 4 Harma	Sarqu Up. 2 Dawn us Algus Tutil	Sorgo 2 10. 4 Hernoss	Sarge 2 Seus Right Fulli
	dary Engalines		18	. 70	74			78
	Filling Ends/Inch	•	55	. 55	44	146	44	18
	detabliation Oz./S	4. 14.	•	•	1.1	1.1		7.4
	Hem. DEL/S	a. 16.	••				7.9	7.3
	HINCH		10" 410.	60° 41a,	te Ha.		60° 41a. 50 14a.	60° #14. 50 745.
	Tinness Apil Long		50 765.	50 res. 175	50 TOS.			760 1413. [46]
	minutes from	•	175 130	179	. 125			125
	Water feet	7	(JØ	1,00				•
		ï						
	THE HOUSE SHITTERED		4.0	4.8	4.0			1.0
		•	1.6	1.0	3.4	1.4	2.5	7.5
	The House Clamper In	• •					•	
	Herman spa-fibro Herman Air Ferna	ws -w.			•			*
********	Simplified ?							
	Steaching /							•
	weeriging !							
	Stack Duetne 7			1	t	z		ŧ
•	Printing 1							
	Coating ?							
	Fusing ?		Varian	Ter taux	-	****	Tarlana	Yer tours
	Tips Used ? Coating Ised ?		10.40	10100	15.44	107-1001	10.000	
	infrared Adflect	,					,	
	Mer Test ?	•						
	secur feedilant ?							
	Hydrostatic Sesio	¢ †						
	SEIFFrage ?							
	Coating Admission Coating gistribut	!						
	Coating Bittribut	168 7						
•	Blocking ? Color meching ?		1					
	Labile Sulpher!		•	•	-	-		
	Ansistant to Inco	EE						
	Report 1							
	Lestage ?							
	Saray taking ?							
	Colorfostness ?		1.5-4.5	!			!	
			7.5-6.5	7.5-0.5	5,5-4.5	5.5-4.5	1.5-4.5	5.5-4.5
	411don Resistance Assis Finish .f	•						
	Sellistic Contaca					*		
	Antistatie ?							
	Heat Resistance ?							
	Flam Resistance	•						
	Durable Press							
	Jerink tosistant							
	Creese Resistant Sell Release Trees							
	antistatic finish							
	40000							
						,		
- 19695	Types of Fibers		view!	PO I YOU LOP	vine!	Polymoter	Veni	Polyester
	E In Tarm		40 Ala,	35 Min.	₩ Ma.	55 MIA.	40 Min.	55 Min.
	\$ felorance		ag Hin.		40 Ma.	-4	40 Min.	•
	Staple Length Senier							
	'macity							
	Cross-Section							
	Lutter						,	
	Type west State west		floace or fulled	Fle	-	Fla	ace or Palloc	
	3,000 400)		64'1		64'1		44'1	
	Treatments Type Argend		**************************************		section and (self		Hetheree/Imp	
	Carbonization form	.						
	Treethants	•						
- 1885	Cotton Count	٧						
					•			
	Pty	¥	3	\$	Į.	\$	5	ž
		F	!	1			\$	2
	Type Tare	;	7 000	5000 5000	Spun	5040	South	5 040
	Carried or Camboo	•	اليمور المختمع	*****	-	3974	معمد معمد)
		•	- Sampai		Cantral		5-000	
						_		
ALEADED AZE			Service, Sept-Oross &	Service,	Service.	Service.	Service,	Service.
			State the form	Sant-Ortes & Dross Uniforms D	Samt-Oroge &	Soul-Gross &	Samt-Dross &	Septimbross &

FAMA IC	Generic Rame weave Narp Ends/Inch Filling Ends/Inch Filling Ends/Inch weight-Min. 02./5 Width Minimum Roll Leng Minimum Break Minimum Shrinkage Maximum Elongatio Maximum Bun-Fibro Maximum Ma	q. 1d. q. Yd. tn w f d f v c n w f w s	HIL-C-43479 Type I Cless I Broadcloth Plain End-and-End 132 73 2.8 3.4 44* Hin. 40 1d. Hin. 90 40	MIL-C-3479 Type 1 Class 1 Broasclotm Plain End-and-End 132 70 2.8 3.4 44° Hin. 40 Td. Hin. 90 40	MtL-C-43479 Type 1 Class 2 Breadclotn Plain End-and-End 132 70 2.8 3.4 44° Min. 40 Td. Min. 90 40	MIL-C-43479 Type 1 Class 2 Broadcloth Plain End-end-End 132 70 2.8 3.4 44° Min. 40 Yd. Min. 40 Yd. Z	HitC-63679 Type 1 Class 3 Broadcloth Place End-end-E 132 70 2.8 3.4 44° Rin. 60 Te. Rin.	MIL-C-43479 Type I Cless 3 Broadcloth Plain End-and-End 132 70 2.8 3.4 44" Hin. 40 1d. Min. 90: 40:
Processes:	Singeing? Bleaching? Mercerizing? Dyaing? Printing? Coating? Fusing?		E MOSTE E X	unite X X	1 1 1	1 1 1		I I
	Dyes Used ? Costing Used ? Intrared Reflect Ower Test ? Hater Repellent ? Hydrostatic Resist Stiffness ? Coating Amesion: Coating Distribut Blocking ? Color Metching ? Lealle Suisbur?	· : ?	ž.	ı	Bisporso E	Vet.	Olegoria E	vet I
	Resistant to Inset Repel 7 Leakage 7 Saray Rating 7 Colorfestness 7 pit Test 7 mildew Resistance Resin Finish 7 Hallistic Resistance 7 Flame Resistance 7 Flame Resistance 7 Durable Press Snrink Resistant Creese Resistant Coll Release Treat Antistatic Finish Mapped Permanent Press	? ce ?	5.0-8.\$	\$.0 -8. 5	5.0-6.5	5.0- 4. 5	\$.0-4.\$	\$.0-a.5
FIBERS	Types of Fibers % in tarn % Tolerance Stable Length Denier Tenacity Cross-Section Luster Type wool Grade wool Treatments Type Aramid Cerbonization Temp Treatments		Polyester 65 •3	Cotton Rest	Polyester 65 •3	Cotton Rest	Polyester 65 •3	Catton Rest
TARKS	Cotton Count	₩ F		,				
	Ply	¥ F	1	1	1	1	1	1
	Type Yarn Carded or Combed	16 F 16 F	Spun Spun	Spun Spun Combed Cumbed	Spun Spun	Spun Spun Combed Combed	S oun S oun	Spun Spun Combed Combed
INTERDED USE			Shirts	Shirts	Shirts	Shirts	Shirts	Shirts

	,			Type (Class 4	Free Class	3984	Type (E Class 3	Type (1 Class 3
MEIC	, Semanto Hame ,40000			Groade loth Flass	Prosect;	letn lain	treastleth Flain	bread lots Plain
	dara Enac/Inc	'		End-and-End	End-and	-Emi	End-and-End	End-und-End
	FITTING Ender	inen		L32 79		132	100	100
	delgat-Hin.	2./Se. 10		2.8		2.3	54 3.2	44 1.2
	-Mac. (le./Sq. Yd	•	3.4		3.4	1.7	3.7
	Harman fell			44° Min.	440		48° 510.	14º 41a.
	-	(macu		40 7d, 'Alin. 30	4 14.		40 10, 410.	10 14, 11a.
				4		16 40	. 52	79 52
	Waters fear							•
	- Yearlease Shrin Hearlease Elene			2 -		ž	2	5 5
	de lans which	•		2		Ş	Ş	\$
	MORTON AIR PO	hanes its	•					
-	: Singeing?		•	t		1		
	disecting ?			wite I	-	• 1	dite i	inite i
	System ?			ž.			1	ŧ
	Printing :			•				
	Fusing 7							
	Open Used 7 Conting Used 1							
	infrared Refle							
	Oder Fest ?							
	Weter Repollen							•
	Hydrostatic Re Stiffness ?							
	Coating Admesi	m 7.						
	Coating Distri	bution ?						
	Color Metching	,				_		
	Labile Sulphur	,		ŧ		2		•
••	Secretare to I							
	Repel 1			•				
	Leston ? Spray fating ?							
	Colorfostmess 1							
	pil Test ?			5.0-8.5	1.0-4.			
	Mides Resistan	ce 7		2.0-0.0	3.504		\$. 0-4 .\$	5.0-4.5
	lesia finisa ?							
	Ballistic Mesis Antistatic 7	tares ?						
	West Resistance	7						
	Flame Accistance							
	· Surable frees							
	Orene Resistant Creese Resistant			•				
	Self delease fro	i Maranat						
	antistatic Finis	in .						
	*100000						,	
	Personent Press			₹				
IBERS	Types of Fibers 8 in term			Polyecter	Cotto		Polyester	•
- •				65	Acet		45	Cotton Rost
	S Tolerance Stable Length			23		-	• • • • • • • • • • • • • • • • • • • •	
	Senter			-				
	Tenacity							
•	Cross-jection							
	LUSCOP							
•	Type weel Grade weel							
•	freetments							
	Type Arabid							
•	Carbonization im	●.						
445	Catton Count	¥.			•			
	rty							
	7	٧		1	1		1	1
	Type form	ý		Spen	Sauce		E Samo	i Souri
	Carded or Compan	į		Saun	Soun Combad		Spun	Spure Commend
TEMBER USE		•			Combus			Contract
Carried Am		•	•	Dires	Ø1PF4			

		MIL-C-3924 Class 1	MIL-C-3924 Class 1	MIL-C-3924 Class 2	MIL-C-3924 Class 2	HIL-C-3924 Class 3	#IL-C-3924 Class 3
FABRIC	Generic Name weave warp Ends/Inch	Unford (2 Warp Ends Weave as 1)	Unford (2 Warp Ends Weave as 1)	Oxford (2 Marp Ends Weave as 1)	Oxford (2 Warp Ends - Weave as 1) 160	(2 Warp Ends Weave as 1)	Oxford (2 Herp Ends Heave as 1) 160
	Filling Ends/Inch	74	160	74	100		100
	weight-Min. Oz./Sq. Yd.		4.8	4.8	4.8		4.8
	-Max. Oz./Sq. Yd.		5.8	5.8	5.8		5.8
	Width Minimum Roll Length	? 40 Yards	7 40 Yards	? 40 Yards	7 40 Yards		? 40 Yards
	Histone Sceak W	40 14FUS	175	40 18703	175		150
	F	138		155	•••		
	Hinimum Tear W						
	Maximum Shrinkage W	1.0	1.0	1.0	1.0	1.0	1.0
	F	i.o	1.0	i.o	i.o		1.0
	Maximum Elongation W	1.0	1.0	1.0	1.0		1.0
	F Hasimum Non-Fibrous Mat	1.0	1.0	1.0	1.0	1.0	1.0
	Maximum Air Permeabilit		3.0	3.0	. 3.0	3.0	3.0
Processes:	Singeing 7	Ĭ.	X	1			t
	Bleaching 7	1					
	Hercerizing ?	I	X	I I	1		I
	Dyeing ? Printing ?			. •	•		amoflage X
	Coating ?					• •	
	Fusing?						
	Dyes Used ?	,		Acid	Vat	Æid	Yet
	Coating Used ? Infrared Reflect ?	X X	1	x	x		1
	Odor Test ?	•	-	•	_	_	_
	Water Repellent ? (Quar	rpel) I	R	X	I		I.
	Mydrostatic Resist ?	X	X	1	· *	x	x
	Stiffness ? Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Metching ?	X .	X			_	X,
	Lamile Sulphur? Resistant to Insect	X.	I	x	I		. •
	Repel ?						
	Leakage ?						
	Spray Rating 7	1	x	x	I	x	X.
	Colorfastness ? pH Test ?	5.5-8.5	5.5-8.5	5.5-8.5	5.5-8.5	5.5-4.5	5.5-8.5
	Hildew Resistance 7	3.0-0.0	3.3-4.3	3.3-0.0	20.0	3.0-3.0	
	Resin finish ?				•		
	Ballistic Resistance 7 Antistatic 7						
	Heat Resistance ?						
	Flame Resistance ?						
	Durable Press						
•	Shrink Resistant Crease Resistant				•		
	Soil Release Treatment					4	
	Antistatic Finish						
*	Mapped			*			
FIBERS	Types of Fibers	Nylon Filling	Cotton Warm	Mylon Filling	Cotton Wars	Hylen filling	Cotton Warg
	S in farm	ny ton 1 to thing		Aylan I Titling		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	% Tolerance					-	
	Staple Length Denier						
	Tenacity						
	Crost Section						
	Luster						
	Type Noo! Grade Noo!						
	Treatments					- '".''	
	Type Aramid						
	Carbonization Temp. Treatments						
	= d (me;) }						
VARRS	Cotton Count W	• • • •	60	•••	60		60
		7	***	?		•	•••
	Ply W	***	2		2	***	2
	Type farm W	1	Spun	1	Spun		Soun
	F	Monof I Lament	39 9 8	Monofil ament		Monef i Lament	
	Carded or Combed W	•••	Combed		Combed	•••	Combed
	Ŧ	***	***	•••	•••	***	* **
INTERDED USE		Parkas, Trousers Pa	rtas, Trousers	Porkas, frousers P	erkes, Trousers	Parkas, Trousers 1	Parkas, Trousers

		ML-C-43/18 Class L	MIL-C-43718 Class L	#IL-C-43/18 Class 2	41L-C-43718 Class 2	.P/P 0(5 23-730 LP/P 0	65 <i>33-73</i> 4
FARRIC	impric tem Very Perp frestiach	folis Z up. 1 damm, left : 73	fuell tutli er plate Z	Tuell up, i amm, loft	fuell tuill or piain	Papilia Plata 92	
	Filling Ends/Inch Vergec-Ate. 02./Sq. 76Mas. 02./Sq. 76.	(-ISS' telerance fo	er 1006 Pelyseter)			52 6.4	
	Width Manus Avil Langth Minnes Break V	SO Yards	SS Tards	7 SB Tards	30 Yards	46 fards 308	
	Hinman Tear U					156 8.5 4.0	
	Masimum Shrimsaga di F Masimum Elengation di	3.0 2.0	1.0 2.0	3.0 9.5	3.0 6.5	2.9 2.0	
	F. Hands tea-Fibrous Het.	•				2.0	
Processes:	Statem Air Personnilley Singaing 7 Bleatning 7					9.6 1	
	Morcorizing ? Opeing ? Printing ? Conting ?		•			£ E (Annie dans) I	
	Fusing? Symmused ?					Giratt/Resia Fi	gamata
	Coating Uses ? Infrares Reflect ? Oder Test ?						
	Hater Resellent ? Hydrostatic Resist ? Stiffness ?						
	Casting Adhesion ? Coating Bistribution ? Blocking ? Color Nucching ?			_			
	Labela Sulpourt Resistant to Insect Resei ? Labelage ?	1	i		.	. \$	•
	Sarcy Tacting ? GolderPathness ? golderPathness ? Yildow Neststance ? Nosis Finish ? Ballistic Rosistance ? Assistance ? Your Rosistance ? Flow Pasistance ? Durnic Rosistance ? Durnic Rosistance Concent Rosistance Tools Rosistance Ro	\$.0-4.5	\$ 5.6-8.5	5.0- 4. 5	9.9-a.š	•	
FIRES	Types of Fibers S in Farm S To Farm S Tolerance Stable Langen Danter Tenestey Cross-Section Luster Type West Grade was! Treetments Type Aramel Carbon raction Carbon raction Treetments Type Aramel Carbon raction Treetments	Poly Cot 47 to 109 47 to 109	tan ar Teyan Root	Pety 47 to 48	COLLEGE POSE		Hylen 70.0 of 1 1/2 25-2.5 High Roune of -del1
	Catton Count o Ply f Type Tarm y Cornes or Cambas v F				Carriage .	Singles Singles Seen Seen Carded	•
ALENGED GAS		Packet Imp	Proceeding	Pochat Ing	Pochat Ing	11tht Desert Clething	•

			41L-C-43892	MIL-C-43892	MIL-C-43843	MIL-C-43843
FARRIC	Generic ham		Twill	Twill	Plain Heave Plain	Plain Heave Plain
	Weave Warp Ends/Inch		2/1 Right Twill 94	2/1 Right Twill	102	102
	Filling Ends/Incm		46	46	56	56
	Weight-Min. Oz./Sq -Max. Oz./Sq		4.E 5.3	4.8 5.J	4.6	4.6
-	Width		?	?	1	?
	Minimum Roll Lengti		50 Yards 155	50 Yards 155	40 Y ard s 125	40 Yares L25
	Hinimus. Break	₩ F	155	. 65	90	90
	Minimum Tear	H				
	M Character	F W	• •	1.0	2.0	2.0
	Maximum Shrinkage	ŕ	2.0 2.0	2.0 2.0	2.0	2.3
	Nazimam Elongation	¥	2.0	2.0	2.0	2.0
	Maximum Non-Fibrou	. m	2.0	2.0	2.0	2.0
	Maximum Air Permee		. 75.0	75.0		
Processes:	Singeing ?					1
	uleaching ? Mercerizing ?				I I	i
	Cyerng?		ı	1	1	£
	Printing ? Coating ?					
	fusingi		•			
	Oyes Used ?		Various	Vertous		
	Coating Used ?					
	Odor Test?					
	Water Repellent		1	1		
	Hydrostatic Resist Stiffness ?	7				
	Coating Achesion ?					
	Coating Distributi	on T			•	
	Blocking ? Color Matching ?		x			
	Labile Sulphurt		ī	Ĩ	ī	1
	Resistant to Insec	t				
	Repel 7 Loamage 7					
	Spray Rating ?		· *	x		
	Colorfastness ? pH Test ?		x 5.0-8.5	1	¥ 5.0-0.5	1
	Hildew Resistance	7	3.0-6.3	5.0-8.5	7.0-4.3	5.0-0.5
	Resin Finish ? Ballistic Resistan	-a ?				
	Antistatic 7					
	Heat Resistance ?					
	Clamp Resistance ? Durable Press				1	
	Shrink Resistant				•	-
	Flame Resistance ? Ourable Press					
	Shrink Resistant					
	Crease Resistant					
	Soil Release Treat	men t				
	Napped					
FIBERS	Types of Fibers		Nylon	Cotton	Poly	Cotton
	% in Yarm % Tolerance		50	50	65	rest
	Staple Length		+5 1 1/2*	-5 	5	
	Denter		2.25			
	Tenacity Cross-Section		Round	•••		
	Luster		NO STATE			
	Type Wool Grade Hool					
	Treatments					
	Type Wramid Carbonization Temm					
	Treatments	•				

TARKS	Cotton Count	e F			# ?7 * 22.5	= 27 = 22.5
	Ply	W	1	1	1 22.5	1
	Tune free	F U	. 1	1	1	1
	Type farm	ii F				
	Carded or Combed	¥		Carded	***	Comped
	•	F	***	Card ed	•••	Commed
INTENDED USE			Chemical	Chemical	Neck tabs	Mecktabs
			Protective Overgarment	Protective Overgarment	(in Women's Poly/Cotton	(in Wamen's Poly/Cotton
			- 4. 70. mans	er yar ment	Shirt)	Shirt)

•		•	41C-10176 Type (/Closs)	ML-C-10176	471C-10176 Type (/Close /	416-5-18176 Type 1/Class 8
- MARIC	- Teneric Hemp Heave Herp Ends/(Heh Filling Engs/(He	•	Gaberstee 2/1 Right Tutli 96	Gabardina 2/2 Right foil 112 16	11441 Beibin 2/2	Teaureline 2/2 Figut Tuill 98 52
	we: ne-min, Uz.	Sa. 18.	7.1	1.1 Ma, 60 °	10.J	6.4 410. 58 °
	didib Tinimas Asii (a Tinimas Areas	ngtill .	111n. 66° 50 Tards 18	50 Tares 115	56 Tures 120	50 Teres 130
	Maine feet	ý	ų	- 19	15	15
	The room Shrinker	•	4.8 3.8	4.0 1.0	4.0 1.0	1.0 1.0
	HOLINES FOR-FIRE	,				
Processes:	Singuing ?					
	Eleaching * ***********************************			1	•	
	Princing ? Coating ! Fusings		•			
	Byes used ? Coating Used ? (ofrered Reflect	17	terfeet	terious	Terross	for tous
	Oder Test? Water Repoilent Hydrostatic Resi Stiffness ?		•			
	Costing Adhesian Costing Bistribs Blocking ? Color Matching !	1 mary				
	Labile Suiphur? Resistant to (m Repol ? Lemage ?					
	Spray noting ? Colorfostages ? an fost ? Mildon Rosistage		5.5-6.5	5.5-0.5	1.5-4.5	5.5-4.5
	Regin Finish ? Bailistic Regist Antistatic ?	1		. •		
	Heat Resistance Flam Resistance Durable Press Shrim Resistant	*				
	Flam Resistance Durable Press Shrine Resistant Crease Resistant Sett Release (res			·		
	Ancistatic Finish					·
::9ERS	Types of Floors 5 in Yern 5 Tolerance Stable Langen Danier		2001 210, 35 210, 95	Min. 95 Min. 95	4401 1810, 99 1810, 99	400 i 1910. 95 1910. 95
	Cross-Section					
	Type went Grace and Tracements Type Aromad Carmonization Tea Tracements		ace or Pulled floai 82's Methernofing s	to or fullat Fin 64's behareding	ate or fulled fla 52's declarated inc	ace or Pulled 64's Matheraufing
· Mad	Cattem Count	*				
	fly Type term	•	2 2	; i	1	1
	Cornel or Cornel	;	South South Combad Combad	Span Span Combod Combod	St a	Sput Sput Combad
माहम्माहक गुड्डह		•	Cletning	Cleaning	Clothing	Clething

				41L-C-10176 Free 11/Class 1	911-C-10175	#11-C-10176 T-on 11/Class 8	**************************************			
		PARTIC	3010*1C 1000	Gasareine 2/1 Aignt Tuill		Separatine 2/2 Right Fuill	isbarding 2/2 Right "sill			
			vero Enes/Inch filling Enes/Inch neight=Hin. Jz./Se, fe.	94 40 6.3	34 48 5.8	;14 56 6.1	114 56 5.1			
			wine, 32,/5q, 16. Winth Minimum Roll Langer	414. 60° 50 Yares	**************************************	41n, 50° 50 Taras	419. 60° 50 Yares			
•			Hintens from V	110	190 110	140 70	150			
			Hazimus Shrinkago V	1.0 2.5	1.0 2.5	1.0	3.2 2.0			
÷	•	•	Maximum Competion of F. Maximum Mono-Fibrous Met.							٠
		Processes:	Heatman Air Formachilty Singeing ? Bleaching ?							
			Mercerizing ? Stack Oyeing? Printing ?	t	ŧ					
			Ceating ? Fusing?							
		,	Oyes Used ? Coating Used ? [Afrered Reflect?	Various .	Yerrous	Terrous	/artous			•
			Geer Test? Weter Resellent Hydrostatic Resist ?							
			Stiffness ? Coating Adhesian ? Coating Distribution ?							
·			Blocking ? Color Masching ? Labile Sulemer?		1	1	t			
			Resistant to Insect Resel ? Learage ?		•					
			Spray facting ? ColorFestness ? pd Test ?	1 5.5-4.5	5.5-4.5	1 5.5-6.5	1.5-4.5			
			Milden Resistance ? Rosin Finish ? Salfistic Resistance ? Antistatic ?							
			Acat Acsistance ? Flame Acsistance ? Durable Press							
			Surint Resistant Flame Resistance ? Durable Press							
			Shrime Resistant Greek Resistant Soil Release Treatment		•				•	
			Antistatic finish Respect							
		11103	Types of Fibers S in Tarn	Pely Ma. 55	weel Min. 40	701y 41#, 55	40.		•	
			1 Telerance Staple Langth Denier	4	M14. 4G	-4	41n. ±0			
			Tenacity Cross-Section Luster					-		
			Type weel Grade meel Trectments Type Aranté Carbonization Temp.	Flee	ice or fulled 62's Methersefing		ce or fulled 54's macnoroofing			
		YMENS	Treetments Cotton Count d							
			219	2 2	2	2 2	į			
			Type form y Careed or Comes y	Soun Soun Somed	Soun Soun Compet	Soun Soun Commod	Saun Saun Cambea			
		INTENDED USE		Comment Classing	Classing	Clashing	Cletning			
	•							•		

	•		41L-C-10176	ML-C-10176	MIL-C-10176	MRC-10176
FARRIC	Gandric Hotel		Generalina	Generaline	interdina	<u>O Fype (1/Class 10</u> Separation
	Weave Warp Ends/Inch		2/2 Right fulli 122	2/2 91gmt full1 122		
	filling Engs/inc	8 Ca. 14.	6.9	43 6.3	50 4.4	50 \$.4
	-Aes. Us./		***			***
	HIRIMAN ROLL LAN		60° Ma. 50 Tards	60° 41a. 50 yerds	50° 410. 50 Tards	igo Min. 50 Tards
	Halma Brea	ļ	160	146	120	129
	Malma Tear	* *	•			
	Maximum Shrinkay	• •	2. 8 1.5	2.0°	1.0	3.0 1.0
		.	•••	•••	•••	
	Maximum Manufilter Maximum Air Para	ous Yet.				
Processes:	Singerng ?	east ity				
	Bleaching ? Hercarizing ?					
	Stock Oyernet" Printing t		ı	t	, 1	1
	facting ?					
	Oyes Used ? Cooting Used ?		Yar tous	Terleus	Ter laus	Tarious
	Infrared Aeftest	•			•	
	Votor Repoilant					
	Nyarastatic Resis					
	Coating Distribut					•
	Blocking ? Color Matching ?			2		
	Labile Sulpmort Resistant to Inst	E L				
	Repol 7 Leanage 7					
	Seray Rating ? Colorfostness ?			_		_
	pe Tees !		5.5-6.5	1.5-4.5	1.1-4.5	5.5-0.5
	Hidew Resistanti Resin Finish ?					
	Ballistic Resista					
	Heat Resistance 1					
*	Surable Press Surable Resistant					
	Flame Resistance Ourable Press	7				
	Shrine designate Creese fesignat					
	Sell Release free	coent .				
	Antistacic Finish Tabbos				•	
* LUERS	Types of Fibers		Poly	i in a	Paly	-
	\$ 18 Tare		Ma. 55	41n. 48	Mm. 55	410. 40
	i 'olorance Stable Lampta	-	*	ma. 19	•	41a, 10
	Commenty Tenacity					
	Cross-Section Luster					
	Type weel Green weel		Floor	9 or fulled 54's	Flee	te er fullet åå's
	Treatments Type Aramid		•	etaproofing	1	to thereof in a
	Carponization Tom Treatments).				
*1495	Cotton Count					
	Ply	į	2	2	z	
	Type fam	F	2 Saus	Soun	Z Saun	S Pues
	Carees or Campas	:	Sava	Souri Compage	Soun	Soun Combat
		*		Comment		-
RTENDED USE			Clacking	Closking	Clothing	Cleaning

			MIL-C-10176 Type [1/Class]]	MIL-C-10176 Type 11/Class11	MIL-C-10176 Type :11/C14512	41-C-10178 Type 11/C1ess12
FARRIC	Generic Hete		Galardino	Gaberdine	Gabardine	Separating
	dere Ends/Ench		2/1 #1404£ Tu111 90	2/t Right Fuill	2/2 Right Tuill	2/2 stone Tutli 108
	FITTING Ends/Ench		53	53	59	56 5.3
	detention. Oz./Sq.		7.2	7.2	6.4	7.5
	width	•	so Hin.	60° M1n.	50° 1119.	50° Mm.
	Hinness Rell Langth		50 Yardi 120	50 Yards 120	50 Yards 140	. 50 Yards (40
	Tinimus Greek		70	70	72	12
	Mnimm fear	¥		•		
	Haz Shrinkage	ý	3.0	3.0	3.0 2.0	1.0 2.0
	Nacimum Elemention	- [1.4	1.0	2.0	C. -
		ř.				
	Maximum Non-Florous Maximum Air Ferman				14	
Processes:	Singetng ?	•	•		•	
	Steaching ? Morcarizing ?		•			_
	Stock Dyeing?		t	1	1	. 1
	Prinzing ? Coating ?					
	Fusing?			Yar tous	Various	Yar-food
	Dyes Used ? Coating Used ?		Various	1871065	187 1065	
	Infrared Reflect?					
	Ger Test? Nater Repollent	•				
	Hydrostatic Resist	1				
	Stiffness ! Coating Adhesian ?	{				
•	Coating Distributi					
	Blocking ? Calor Metchine ?		x	1	, x	
	Labile Sulphuri					
	Resistant to Inset Repel 7	1				
	Leakage ? Sersy Rating ?					
	Colorfestness ?	1		5.5- 4. 5		
	pH Test ? Hildow Resistance	1	\$,5-4.5	3.3-4.1	7.3-4.7	3.0-0.0
	Resto Finish ? Ballistic Resistan	į				•
	Antistatic ?					
	Heat Resistance ? Flame Resistance ?	į				
	Durable Press					4
	Shrink Resistant Flamm Resistance ?					
	Oursbie Press		_			
	Shrink Resistant Creese Resistant	1				
	Soil Release Treat	ment				
	Antistatic finish	į				
FIBERS	Types of Fibers	!	Poly	ideal	Poly	Heel
	S in Yarm		MIA, 55.	Mfn. 40 Mfn. 40	Mn. 55	Ala, 40 Ala, 40
	% Telerance Stapie LangeR				·	•
	Denier Tenacity					
	Crass-Section				,	
	tuster Type Hoef		Flo	sace or Pulled	#1	eace or Pulled
	Grade Wool Treatments			64's Methoroofing		64's Motheroofing
	Type Arabid			,	,	•
	Carbonization Temp Treatments).				
		u				
YARNS	Catton Count	V F				
	Ply	4	2	2	2	ž
	Type Yarn	¥	S Spun	Z Saun	Soun	Soun
	Carded or Combed	f	Spun	Spun Combod	Spun	Spun Combed
	PRESENT OF COMPANY	ř		Compad .		Combed
INTENDED US	s£		Clathing	Clothing	Closhing	Clething
	-			*-	•	•

		MIL-C-11065	MfL-C-11065	MIL-C-29127 Class L	MIL-C-29127 Class 1	MIL-C-29127 Class: 2	MEL-C-29127 C1455 2
- ABR 1C	Seneric Name	Flannei	Flannei	feill	fwill	fwill	futli
	were Ends/Inch	2/2 Sroken twill:	2 ands rt. 2 lft.	2 up 1 down : 102	right twill	2 up 1 dour	right tuill
	Filling Ends/Inch designs-Min. Og./Sq. 7d.	33 10.3	13 · 10.1	50 6.8	50 · 6.4	50 6.8	50 6.8
	-Max, Dr./Sq. Yd.		•••	•••	•••	**;	***
	didth Yinimum Roll Length	min, 60° 50 Yards	ain. 60° 50 Yards	7 40 Tends	? 40 Tards	40 Tords	40 Tares
	Minimum dreak W	50 40	50 40	170	170 85	170 . 85	170 85
	Hinimum Tear W	40	. •	7.0	7.0	7.0	7.0
	F Maximum Shrinkage W			5.0 2.0	5.0 2.0	5.0 2.0	5.0 2.0
	F			2.0	2.0	2.0	2.0
	Maximum Elongation W F						
	Maximum Hon-Fibrous Mat, Maximum Air Permeability			6.0	6.0	6.0	6.0
Processes:	Singeiny ?						•
	Aleaching ?			ı	1	4	
	Dyeing ? Printing ?	Stock	Stock	ŧ	4		
	Guating ?						•
	Fusing? Oyes Used ?	Various	Yar lous				
	Coating Used ? Infrared Reflect ?						
	Odor Test ?						
	.iter Repellent ? Hydrostatic Resist ?						•
	Stiffness ? Guating Adhesion ?	1	I				
	Coating Distribution ?						
	Blocking ? Color Matching ?	1	1	1			
	Labile Sulphur? Resistant to Insect			z z	t		
	Repel ?						
	Leakage ? Soray Rating ?						
	Colorfastness ? pm Test ?	1 4.0-8.0	4.0- 0. 0	1 5.0-6.5	4 5.0-4.5	5.0-8.5	5.0-4.5
	Mildew Resistance ?	4.9-4.0	4.0-6.0	3.0-0.3	3.0-0.3	***************************************	****
	Resin Finish ? Ballistic Resistance ?						
	Antistatic ? Heat Resistance ?						
	Flame Resistance ?	*					•
	Ourable Press Shrink Resistant	1	Į.				
	Crease Resistant Suil Release Treatment			1			8
	Antistatic Finish						
	Yapped						
- ! SERS	Types of Fibers % in Yarm	Hin. 805	Nylon Mas. 20%	Paly SOS	Cotton Rost	Pely SOE	Cotton Ross
	& Tolerance	Min. 90%	Max. 20%	•35		1-172*	
	Staple Length Denier			1-172° Max 2.5		Man 2.5	
	Tenacity Cross-Section						
	Custer Type wood	,					
	Grade 4001	•					
	Treatments Type Tramid	Mothproof ing					
	Carbonization Temp.						
	Treatments						
PARS	Cutton Count # F						
	Ply d	1	1	<u>;</u>	· 2	\$ 1	2
	Type Yarn u	•	•	•	•	-	-
	Carded or Combed' W	Carded	Carded		Çambet		Compad
	F	Carded	Carded		Combad		Contret
"MEMOFO USE		Shirting	Shirting	Uniform Clothing	Uniform Closhing	uniform Clathing	Uniform Clothing
				0.00mm	eresump	4.4	4.44.4.4

			41(-1936)	441C-29363	mt(-43679	#IL =0-43679	41-C-4376L	401-C-43798
FARIC	lateric tam		Pagi in	Poorto	(with)	.Fitting	Smill	Feet 1
	400		Plain	21410	91418	91610		right tuill)
	HATO ENGLITHER		110	110	50	***	106	:04
	Filling Engay Inci		.44	14	:	15	50	50
	- defentation, i)g./! -Max. i)g./!	59, 16. La 14	5.S 4.4	5.5 5.8	7.0	7 0	6.8 7.8	4.8 7 3
	414th		41a. 184	41a, 14°	•••		' · •	′ •
	- statemen Apill Land	peh	40 74745	46 14/45	20 14740	20 Yards	16 10105	IO Tords
	-	•	185 70	185	'5		:70	170
	Minimum Tear		1.0	5.0	***	55	. 16 5.0	30 5.J
	-1111-1-1111	į	2.9	2.0			1.8	3.0
	Tes imas Jarim age	•	2.9	2.0	4.0	***	2.0	2.3
		ŗ	1.0	1.0	***	4.0	1.5	L-S
	Ten Imae Elempatio	m Y	2.0 1.9	2.0				
	Heat Imper Apparal library	me fiet.	1.9	1.0			2.0	z. o
•	TOUTHOU ATT FORMS	Motilty	4.0	4.0			440	(
processes:	Singuing ?							
	Sleathing ? Marcarizing ?						3	•
	Seeing 1		t		i.		1	į
	Printing !		•	•	•		•	•
	Casting 1							
	fusings							
	Oyes Used 7		Ter 1400	Tarigus	***	***	(Yet 🛫 1	at & discorred)
	Cooking Used ? Infrared Reflect	,						
	Oder Test ?	•						
	Heter Reseilant 1	•						
	Hydrostatic Resis	t 1						
•	Stiffnest t Coating Admesion				0.082-4.998	0.12-0.20		
	Costing Distribut	,		•				
	Stocutes ?							
	Color Meching ?		t				1	E:
	Labile Suipher!		*					ı
	Resistant to Inse	Rt	•					
	Lesting ?							
	Sar dy Hat Ing 7							C C
	Calerfeatness 7	•	5.5-4.5					R
	Middle foglistance		7.3-0.3	5.5-0.5			1.0-4.5	5.0-6.5
	Resim Finish 7							
	Ballistic Regista	ACO ?						
	Heat Resistance ?							
*	Flame Besistance	,					·. •	
	Durable Press Tre	OCCUPAC			•		ŧ	•
	Brist Segistant							
	Creese Resistant Self Release Tree						_	
	Antistatic Finish						1	τ
	100000							
FIRERS	Types of Fibers							
PIBERS	E IN THEN		201y 45%	Cocton	Cotton warp	Rayon Filling	Poly	Catton
	1 folgrance		•33 •33	rest	*		50E +5E	
	Stable Length						1-172	
	Center Tenacity						Mem 2.5	
	Cross-Section							
	. 46107							
	Type Yeal							
	Grade week							
	Type Armid							
	Carbonization feet	٠.						
	Trestments							
****	fantan fr ==					*		
	Cotton Count						25	35
	21y	ů.	Ł	2	1		1 8	i8 2
	• •	•	l	ī			í	:
	'ype form		Speek	Sauce		-	•	-
	Carded or Compad	ú	Spun					
		ř		Combad				Combad Compad
INTERDED HISE								
HIT DESCRIPTION		Coots and	All weather Vinderesters	411 Weather Coats and Mindersears	Cap intertining	Cap incortining		

		MIL-C-43791 Type 11/Class 1	HEL-C-43791 Type 11/Class 1	MIL-C-43791 T-pe 11/Class 2	MIL-C-43791 Type 11/Class 2	41L-C-43791 Type 11/Class 3	WILC-43791 Type II/Class 3
*****	•	Test	Twill	Twell	Twill	Test1	Saill
FARRIC	igneric Yame meane	(2 Up=1 Down	(2 tio=1 Down	(2 Up-1 Down	(2 Up-1 Down	(2 Us-1 Down	nwofi (2 Up-1 Jown
	400	Left Twill)	Left [wi]])	Left Tuill)	Left [will]	Left (-:11)	Left full)
	worm Enes/Inch	85	85	95	a\$. 85	95
	Filling Ends/Inch	45	45	45	45	45	45
	weignt-Min. Oz./Sq. Td.	6.8	6.8	6.8	6.8	6.8	6.8
	-Mex. 02./5g. 7d.	7.5	7.8	7.4	7.9	7.8	?. .
	TIRING ROLL Length	40 Tards	40 Tards	40 Tards	40 fards	40 Targs	40 Yards
	Minimo Brest d	145	145	145	145	145	145
	,	90	90	90	90	90	90
	TIRIBUR TEAT W	5.0	5.0	5.0	5.0	5.0	5.0
		5.0	5.0	5.0	5.0	5.0	5.0
	Maximum Shrimkage H	2.0	2.0	2.5	2.\$	2.5 1.5	2.5 1.5
	- F - Max Imam Elongation W	1.5	1.5	1.5	1.5	1.3	1.3
	f comparison						
	Yazımın Hon-Fibreus Yat.	2.0	2.0	2.0	2.0	2.0	2.3
	Maximum Air Permoability	• • •					
Processes:	Singeing !			,			
	Bleaching ?	_	_	_			
	Hercarizing ? Overne ?	1	I I	1	. I	1	;
	Printing?	•	•	. •	•	-	,
	Coating ?		•				
	Fusing?						
	Dyes Used ?	(Yat	and Dispersed)	{Vat	and Disparsed)	. (Yat	and Dispersed)
	Coating Used ?	•	•				
	infrared Reflect ? Odor Test ?		,			*	
	Mater Receilent ?						
	Harostatic Resist ?						
	Stiffness 7						
	Coating Admosson ?						
	Coating Distribution ?						
	Slocking ? Color Matching ?	1	1	1	1	1	1
	Labile Suicher?	i	i	i	i	î	ì
	Resistant to Insect	•	•	-	•		
	Repai ?						
	Lemage ?						
	Spray Rating ?		1	x	1	1	
	Colorfastness 7					*	
	pM Test ? Mildew Resistance ?	5.0 - 8.5	5.0 - 8.5	5.0 - 8.5	5.0 - 8.5	5.0 - 8.5	5-0 - A.S
	Resin Finish ?						
	Sallistic Resistance ?		*				
	Antistatic 7						
	met Resistance ?						
	Flame Resistance ?		_		_	_	_
	Durable Press Treatment Shrink Resistant		I	•	1	1	1
	Crease Resistant				•		
	Soil Release Treatment						
,	Antistatic Finish				•		
	Respect						
fiere	Types of Fibers	A	£		¢		Catton
FISERS	SIR Tarm	Poly	Cotton	foly	Cotton	Poly	COLLON
	\$ Talerance		*	i i			
	Staple Length	1-1/2*		1-1/2*		1-1/2*	
	0enter	Mes 2.5		Mas 2.5		Max 2.5	
	Tenacity						
	Cross-Section Luster					* *	
	Type Woel						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.					•	
	Treatments						
TARNS	Cotton Count W	14-15.5	14-15.5	14-15.5	14-15.5	14-15.5	14-15.5
	F	12.5-14	12.5-14	12.5-14	12.5-14	12.5-14	12.5-14
	Ply W	1	. 1	1	ı	1	1
	* Year	1	. 1	1	1	1	1
	Type Yarh W			•			
	Carded or Compet W		Either	•	Either	•	Either
	r		Either		Either		Either
INTENDED HISE				٠			

NTENCED USE

•		415-5-43490		411-C-43490 7:111A0	#11 -C-#1450	#11 -C-23498 F111 ing #1	411C-23490 2-1111mg
FARRIC	lengric 1888	-	-	to stable filling	•	•	
	down, Lug r	eversal for 2 ma	e relator to cor	ntinuous filling at	rand. 😘 picts	COOK. 111 MINUTE OF	e 2 picks (Capie
	worm Ends/Inch Filling Ends/Inch	105	continuous 65		••	 45	15
	furns/Inch motons-Mm. 12./Sq. 76.	4 to 4 4.5	4 to 8	,	1	•	,
	-Men. Oz./Sq. 16.	9.5					
	alath Minimus Asil Langth	54*				•	
	Tinnes trest	150	150	150	150 100	150 100	150 130
	Timesan Tear U	100 20	100 20	100 20	.:0	20	.:0
	F Next reads Shirt Intrades V	29	20	20	.	, 29	23
	•						•
	Maximum Clangetian V			•			
	Testimes Non-Fibrous Met. Maximus Air Fermospility						
POC051851	Singaine ?			. •			
	Bleaching ?						
	Syeing !				•		
	Printing ? Coating ?						
	Fusing? Oyes Used ?	_		•			
	Coating Used 7	•					
	infrared Roffect ? Odor Test ?						
	Water Repollent ?						
	Stiffness ?				*		
	Coating Admoster ? 'Coating Distribution ?			•			
	Slocking ?				•		
	Calor Matching ' Labile Sulphorf						
	Registant to Insect						•
	Leatage ? Spray Rating ?						•
	Colorfostnoss ?						
	411dom Resistance ?						
	Regin Flatsh ? Salltstic Assistance ?			•			
	Antistatic ? Heat Resistance ?						
	Flame Resistance ?						
	Oursole Press Shrine Resistant					•	
	Crease Resistant Sell Release Freetmant				•		
	intistatic finish			3 8	2 ******	2 Preses	2 Pesses
	10000	2 Forses on Filling Side	2 Passes on Filling Side	2 Passas on Filling Side		on Filling Side	
				*eta-eras	nd and		
FIBERS	"yees of fibers	Meta-aranta Váry	Meta-oranid Filling	para-oramid into	randiate meaulus Filling	"tes-erased	1010114
	& In Tarm			50	50		
	i Tolerance Stable Length	Cont I nuque	Continuous				
	Senter Tenecity	200/100	200/106				
	iress-Section Luster				1		
•	Type woell Green well						•
	freetments				1		
	Type Arable Careonigation Temp.				1		
	*restaunts				1		
-	Latten Count V						
•	219				1		
	f Type Tarm d				1		
	Carees or Commed V				1		
					1		
HENDED US	L	Non-Witing	Non-Melting	Non-Helt Ing	non-miting	Ton-Mitting	Non-Melting
		- tyring Clathing	riying Ligening	Flying "latning	- Jing Crocuing	Likum Ciecuses	7 mg 1:10 th mg
		• •			1		

			91L-C-62252 1-00 1/CT455.2			11L-C-42252 Type 1/Class 5
<u> Amic</u>	Jameric Name deave deave ince/Inch #111ing Ence/Inch mightwells. 32./56. 76. 	9/Peaclech 2/1 right trill 2/1 54 - 58 9.0 9.6 58*	Presselects 1 right twill 2/1 56 95 10.0 10.7 54*	3reastioth right twill 2/1 60 58 10.1 10.9 56°	Smeancloth reget to:11 2/1 54 56 10.7 11.3 54"	\$reascleth right turl? 30 56 [4.1 15.6 56*
	Hintman Apil Langth Hintman System Hintman System Hintman Coar d	10 Yares 45 42	10 18.02 20 12	40 TOTAL 40 35	40 78785 15 45	40 Yeres 55 40
	Teatman Strimage 4	\$.8 4.0	2.0 1.5	3.5 3.5	1.5 2.5	4.0 3.0
>=9Ensas:	Tenime ten-Fibrout Tee. Tenime Air Fermentilly Singaine ?					
- Constant	Singering 2 Sleach Dyesne? Printing? Casting? Fusing? Dyes Used? Casting Used? Casting Used?		, t			1
	Geer Test ? Aster Repellant ? Approximate Resist ? Stiffness ? Casting Agnesion ? Costing Distribution ? Blocking ?					
	Color Miscoling ? Lastle Selame? Resistant to Innet Resistant ? Lessage ? Serry Resing ?	t	*		ı	•
·	Calerfateris ? por Test ? stillean Ageistance ? Regin Finish ? Relifistic Resistance ? Ancistatic ? Read Resistance ? Flamm Resistance ? Duranie Press Derine Resistance ? Serial Release Treatment Ancistant Finish Ancistant Finish Vaccount	4.0+ 4. 0	4.0-6.6	· t	£ 4.0~4.0	1 4.3-4.9
FLISERS	Types of fleers % in Yere % To Yere E Tolerance Steels Length Dester Tenacity Gross-Section Luster	eesi 414, 355 414, 955	uasi 41a, 195	Ma, HS	-eei 41a. 995	ael Ma, 35E
	Type weel Sreen weel Treetments Type Arama Carbonization Temp. Treetments	Floace or Fulles Fig 64's "echormering s	MES or Pulled fle 54's MEDIFFEETING RI	64'1	40°s	egge or Pulled 64's Rerecting
	Cotton Count d Fly d Type form d Coront or Commen d	1 South South Cardod	å 1 Soun Soun Cardes	1 South South Cardool	I I Isun Soun Cardon	Soun Soun Soun Carons
CHTENDED VSE	<i>;</i>	Cardon Clashing	Classing	Clothing	Caross	-Clacking

•		MIL-C-82252 Type	MIL-C-82252 Type 11/Class 1	MIL-C-82252 Type 11/Class 2	MIL-C-82252 Type [1/Class 2	MIL-C-82252 Type II/Class	MIL-C-82252 3 Type II/Class 3
FABRIC	Generic Heme Make Here Ends/Inch Filling Ends/Inch Meight-Min. Jr./Sq. Yd. -Max. Qr./Sq. Yd.	9roadcloth 2/1 right twill 56 55 10.0 10.7	Broadcloth 2/1 right twill 56 55 10.0 10.7	Broadcloth 2/1 right twill 54 54 10.7 11.3	Broadcloth 2/1 right twill 2 54 54 10.7 11.3	### ##################################	8roadclotm 2/1 right twill 51 51 10.7 11.3
	Hinimum Roll Length Hinimum Break W F Hinimum Tear W	Min. 54° 40 Yards 50 45	Min. 54° 40 Yards 50 45	Min. 54° 40 Yards 55 45	Min. 54* 40 Yards 55 45	Min. 54° 40 Yards 55 45	Min. 54° 40 Yerds 55 45
	F Nazimum Shrinkage W F F F F F F F F F F F F F F F F F F	2.0 1.5	2.0 1.5	3.5 2.5	3.8 2.5	1.5 2.5	3.5 2.5
Processes:	F Maximum Non-Fibrous Met. Maximum Air Permeability Singeting 7 Bleaching ?		•				
	Mercerizing ? Stock Openng? Printing ? Coeting ? Fusing? Dyes Used ?	· x	İ	x	X	· t	
	Coating Used ? Infrared Reflact ? Odor Test ? Hater Repellent ? Hydrostatic Resist ? Stiffness ? Coating Admesion ?						
	Coating Distribution ? Blocking ? Color Matching ? Labile Sulpour? Resistant to Insect Acops ? Leanage ? Sorey Rating ?	1.	2		x	T	I
	Colorfestness ? pH Test ? Regin Finism ? Ballistic Resistance ? Antistatic ? Antistatic ? Flame Resistance ? Flame Resistance ? Dyrable Press Shrink Resistant Crease Resistant Antistatic Finish Happed	Я 4.0 -8.0	4.0-6.0	4.G-4.0	4.0 -6. 0	4.0- 0. 8	4.0-4.0
FIBERS	Types of Fibers 3 in Tarn 5 Tolerance Stable Length Denier Tenacity Cross-Section	400 i Min. 832 Min. 832	(Syn?) Mam. 17% Mam. 17%	Hool Min. 835 Min. 83 5	(Syn?) Mem. 17% Mem. 17%	Noe! Min. 835 Min. 835	(Sym?) Max. 175 Max. 175
	Luster Type Wool Grade Wool Freatments Type Aramid Carbonization Temp. Tryatments	Fleece or Pulled 60's Motheroofing	f	leace or Pulled 60's Motheroefing	F1e	ece or Pulled 60's Metheroofing	
YARMS	Catton Count W F W W F Type Yarn W F Cardee or Commed W F	1 Spun Spun Carded Carded	1 Soum: Soum Carded Carded	1 1 Spun Seun Carded Carded	1 1 Spun Spun Carded Carded	I I Soun Soun Carded Carded	l Spun Spun Carded Carded

INTENDED USE

			4[L-C-4]84	7 YEL-C-13841	1912-C-431	M7 4(L-C-4034	41€-€-14036
7488 (C	Separto Years		Jaford	Jafore	Cafere	7st11	Test 1.1
-	40000		Plain,	MECANE 2 HAPE YOU	TE	2/1 Left Telli 2/	Litera Tuell
	Were Ends/Inch Filling Ends/Inch		130	44		#6 54	26 54
	watent-Ha. Ja./	.n Sa. 74.	7.0	7.3	7.0	5.8	6.3
	-Max. Oz./	Se. 1d.	8.0	1.4	8.0	7.3	7.3
	vieta						
	Minima Jose Minima Jose	A T	49 Tares 150	40 Yards	46 70045	40 1 sres 200	40 Teres 200
		ž		90		125	125
	William Tear	•	4.0	***		11.	i.
	"METIMAN SHETTERS		*****	2.5	2.5		. :
	A INC. SET INC.	• ;		•		2.0	2.0
	Mastimus Elongati	on v				2.0 2.3	2.5 2.3
	Maximus Non-Fibr	#				2.3	2.0
	VALUE AND PRO	maniity	2.0 5.0	2.0 5.0	2.0 5.0	25.0	25.0
Processes:	Singering ?	,	.4	1	7.7		3.5
	Bleaching ?		_		_	_	_
	Mercertzing ? System?		. 8		1	E E	
	Princing ?	•	z	1		i	i
	Coating ?						
	Fusing? Oyes Uses !		TAT	Yet	Val		•
	Coating Used ?	•	745	166	745		
	infrared Reflect	1 .	4				
	Open Test !	•	_	_	_		
	dater femallant !	.e ?	1	1	:		
	Stiffness !		•	-			
	Coating -anasion Coating Oistribut	?					
	STOCKING !	ii een r					
	Caldy Waterian 7						ı
	Labria Sulpnur?		4				4
	lesistant to (mid	E£ .					
	Leakage ?	•	•				
	Soray Racing ?			1	1		
	Calerfestness ?		5.0-4.5	1.0-4.5	5.0 -4. 5	5.5m2.5	
	Widon Berterners	1 -	7.0-0.5	1.0-0.5	3.0-4.3	3.7-4.3	5.5-8.5
	POSTA FIRITA !						
	Sailistic Tesista Letistatic !	ecs .					
	"met feststance ?						
	FT me feststance	t					
	Surable Press Shrink Resistant						
	Greese Resistant						
	Self Release Tree	taget				•	
	Antistatic Finish						
	-						
FISERS	"ypes of Fibers		Catton darg	Coston Filling	Tyles filling	Catter	Tyles
	& [n rare & Tolerance		1008	50%	MIR. 498	lest	505
	Stable Longth .		0	<u>. 58</u>	414. 455 L-1/2°		1-T/2"
	Contar		•		2.25		2.5
	"enacity Crass-Section				1		
	Luster				Round		found
	'yee weel			•			
	Page and						
	Treasures Type Armse						
	Carponization Taxe).					
	Treatments					•	
-439/5	Lotton Count	u u					
طنبت		ž.					
	21y	•	2			1.	1 2
	"ype *arn	;				1	1
		ř					
	Tartes or Cambos	4	Control	***		: #400 : #400	
		•		Carded		Carped	
INTENCED USE		*	*ens	*erc	"ant	Jayeim Gesert Dayer	Ma Sesert
						Jestore	Jniform

			CCC-C-476 Type (/Class A	CCC-C-476 Type 1/Class 8	CCC-C-476 *ype 11	CCC-C-476 Type II
	Generic 1880		Suncing	Sunting	Bunking	Sunt ing
FARRIC	Heave		Plain (Sal	vege as Oxford)	Plain (Selvi	oge as Oxford) .22
	ders Ends/Inch Filling Ends/Inch		106 76	62 -50	30	70
	Agrant-Min. 02./54.	14.	2.7	1.6	4.5	4.3
	-Max. 92./54.	7d.	,	,	2	. 7
	didth Minimum Roll Length		40 Yards	40 Yards	40 fards	40 Yards
	Hin House Break	4	125	225	115 100	115
	Mana - Fana	F V	. 155	152		
	Hintmus Tear	F				
	Heximae Shrinkage	¥				
	Maximum Elongation	F U				
		F				
	Haziman Hon-Fibrous Haziman Air Permeab			•		
Processes:	Singeing ?	••••	_	**		
	Sleaching ?					
	Mercarizing ? Oyeing?					Stock Dye
	Printing ?					
	Coeting ?					
	Fusing? Oves Used ?					
	Coating Used ?		•			
	Infrared Reflect?					
	Odor Test? Water Repellant					
	Hydrostatic Resist	7				
	Stiffness ?					
	Coating Adhesion ? Coating Distribution	. .	•			
	Blocking ?		_		1	1
	Color Mesching ?		1		•	•
	Labile Sulphur? Resistant to Insect	2				
	Repei ?					
	Leakage ?					
	Spray fating ? Colorfastness ?		1	3		4.0-4.0
	pe Test ?	_	5.0-4.5	5.0-8.5	4.0-4.0	4.9-6.0
	Hilden Resistance Resim Finish 7	ı				
	Bailistic Resistant	te f				
	Antistatic ? Heat Resistance ?					
	Flame Resistance ?					
	Durable Fress					
	Shring Resistant Flame Resistance ?					
	Durable Press	,				
	Shrink Resistant					
	Crease Resistant Soil Release Treat	ment		•		
	Antistatic Finish	-	•	•		
	Nasped					
				M	Tylon	uma 1
FIBERS	Types of Fibers		Mylon	- Tylon	75	25
	% in Yarm % Tolerance					-5
	Staple Longth		Continuous 70 Warp or 140	Continuous 200 or 210		
	Denter Tenacity		/G HAPP OF 14G	200 01 210	•	
	Cross-Section				3riant	
	Luster		Bright	Sright		ice or pulled
	Type Wool Grade Wool					44'5
	Treatments					
	Type Aramid Carponization Temm					
	Treatments					
- 10	Catton Count	¥				
MARKS	COLTON COMME	ř				_
	Ply	¥	1	1		ž
	Tues Harm	F	2 or 1 (Continuous	{Continuous		Soun
	Type YarR	ē	(3nums)	fil ament)		Soun
	Carded or Combed	¥				Compad Compad
		ř				
INTENDED US	<u>se</u>		Flags	F1 ags	Flags	Flags

MAN-MADE FABRICS

		41L-C+70206 Type I	4fL-C-7020G	#1L-C-7020G	9ft-C-7020G Type IIa	41L-C-7020G	MIL-0-70209
FRBRIC	4eave	Rip Strep	Rip Stop	full	Tuell	Rip Stop	Rip Stop
	•	(Figure 1)	Reinf, Selv. (Figure 1)		Reinf. Selv.		Reinf, Selv
	warp Ends/Inch	120	120	Zup/2down/tw+11 120	Zup/Zdown/tw+11 120	(Figure 2) 120	(Frauce 2) L25
	Filling Ends/Inch Height-Min, Oz., Sq. 14.	120	: 129	75	76	*6	75
	-Max. Oz./Sq. Yd. Width	1.1	1.1	1.6	1.6	1,6	1.6
•	Minimum Roll Length	36.5±3.5 100 yds.	36.5+0.5 100 yds.	36.5 <u>+</u> 0.5 100 yds.	36.5±0.5 100 yds.	16.5±1.5 100 vds.	36.541.5
	Minimum Break W	42 42	12	50	50	50	1 90 yes. 50
	Minimum Tear W	5 <u>+</u> 1	42 5+1	50 5	50 5	50 1	ε <i>ι</i> ,
	Maximum Thrinkage W		_5 2%	5	5	1	1
	F	2%	2%	2% 2%	2% 2%	2% 2%	
	. Maximum Elongutton VI F	20 20	70 20	20	20 . 20	20 20	20
	Maximum Yon-Fibrous Mat. Maximum Air Permeability			(see 3.3.3.	l. and 3.3.3.2.)	•••••••	
	Maximum Thickness	120 0.003	12 3.003	160 0.004	160 0.004	160 0.004	160 9.004
Processes:	Singeing ? Bleaching ?					0,,0	9.00
	Mercerizing ?		•				
	Dyeing ? Printing ?			•			
	Costing ?					•	
	Fysing? Cyes Used ?						
	Coating Used ? Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ? (Quarpel Hydrostatic Resist ?						
	Stiffness ?						
	Coating Adhesion ? Coating Distribution ?		•				
	Blocking ?				•		
	Cotor Matching ? Labile Sulphur?						
	Resistant to Insect Repel ?	• "					
	Leakage ?	•					
	Spray Pating ? Colorfastmess ?	*		1	1	1	ŧ
	pM Test ? Mildew Resistance ?	5 to 9	5: to 3	5 te 9	5 to 9	5 to 9	5 to 3
	Resin Finish ?				. •	•	
	Ballistic Resistance ? Antistatic ?						
	Light & Heat Resistance	, , , , , , , , , , , , , , , , , , ,	*	1	X	1	
	^ge Maximum Flame Pesi*tant	1.5 yes.	3.5 yrs.	3.5 yrs.	3.5 yrs.	3.5 975.	3.5 prs.
	Ourable Press Thrink Resistant						
	Crease Resistant	•					
	Soil Release Treatment Antistatic Finish	•					
	Yapped			•			
FIBERS	Types of Fibers	Tylon	Nyton	Nylon	Nylon	Tylon	Tylon .
	% in Yarm % Tolerance	100%	100%	1075	100\$	1001	100%
	Staple Length						
	Denier -enacity	High	High	. High	High	High	High
	Cross-Section Luster	Bright	Bright	Sright	Grient	9right	3right
	Type Wool	i i	or vync	or - 41.C	or igne	grique)r igne
	Grade Wood Treatments	1					
	Type Aramid						
	Carponization Temp. Treatments	•\					
YARNS	Cotton Count d						
	F						
	Pty W						
	Type farm id	\					
	Sarged or Comped #	1					
	**************************************	5	5	•	5	•	٤
	F	-[:	•	:		•
TEL PAGE 19.						•	
	Width + 1/16" "Hickness (wast"	<u>.</u> 1	1/2 9.005	•	1/2 9.005	•	1/2
	Steeking fromgth (min.)	-	56	:	9.009 96	:	11,1,00
LATENGED HISE			i far achul	le or Sase Cloth f	ne (oated Expeles)		

		MIL-C-7350E Type 1/Class :	MIL-C-7350E .Type I/Class II	AIL-C-7350E Type 11/Class 1	MIL-0-7350E Type 11/Class 11
FABRIC	deave	(See Figure 1)	(see Figure 1)	(see Figure 2)	(see Figure 2)
	darp Ends/Incm	70	70	52	52
	Filling Ends/Inch Weight-Min. Oz./Sq. rd.	70	70	- :2	. 85
	-Max. 32./54. fd.	2.25	2.25	3.50	3.50
	diath	36.5±0.5	39.5 <u>+</u> 0.5	36.5 <u>+</u> 0.5	39.5 <u>+</u> 0.5
	Minimum Roll Length Minimum Break W	100 yds . 90	100 yds 30	100 yas 125	100 yas 125
	F	%0	90	125	125
	Minimum Fear W	10 10	10 10	30 30	20 30
	Meximus Shrinkage W F				
	Maximum Elongation W F	. 25 . 25	25 25	25 25	25 25
	Maximum Non-Fibrous Mat. Maximum Air Permeability	150	150		***
*	Maximum Thickness	0.0068*	150 0.0068*	200 0.0140°	200 0.0140*
Processes:	Singeing ?				0.00.0
	Bleaching ? Mercerizing ?				
	Oyeing ?	`\	(selvac	e thread only)	
	Printing?				
	Caeting 7 Fusing?				
	Dyes Used ?				
	Coating Used ? Infrared Reflect ?				
	Odor Test ?				
	Water Repellent ? (Quarpo Hydrostatic Resist ?	o l			
	Stiffness ? Coating Adhesion ?				
	Coating Distribution ?				
	Blocking ?				
	Calor Matching ? Labile Sulphur?				
	Resistant to Insect Repol ?				
	Leakage ?				
	Spray Rating ?	ı		•	
	Colorfastness ? pH Test ?	5 to 9	5 to 9	1 5 tu 9	5 to 9
	Mildew Resistance ?	•	• • • •		•
	Resin Finish ? Ballistic Resistance ?				
	Antistatic ?				
	Light & Heat Resistance	¥	t		1
	Age Maximum Flame Resistant	3.5 yrs.	3.5 yes.	3.5 yrs.	3.5 yrs.
	Curante Press				
	Sheink Resistant				
	Cresse Pesistant Soil Release Treatment				
	Antistatic Finish Napped				
FIBERS	Types of Fibers	Nyton	Hylon	Stort on	uvlan
	% in farm	100%	1002	. 10%	100%
	% Tolerance Staple Length				
	Denier				
	Tenacity	. High	High	High	High
	Crass=Section	3rient	3r ight	Bright	Brinkt
	Type /mp1	37 10.10	31 14 16	or ognic	3F10HE
	Grade Word Treatments				
	Type Aramid				
	Carbonization Temp. Trestments				
VARNS	Cotton Count 4				
	pty d				
	Type Yarm 2				
	Canded on Comped W				
	Sanded on Combed (a)				
	TPT MIN)	5	5	5	•
	t	5	7	•	•
30" Cacharn		Paracoute	* + - + C + + - P	* resemble	har relimine

			MIL-C-43906 Type I	#11-C-43906 T-90 II	#1L-C-43473 Type I	HEL-C-43473 Type II	M(L-C-43673 Type [11
FARRIC	Generic Name		Various Plain	Various Plain	Rip-Stop Plain	Rip-St op Plain	Rig-Step Plain
	warp Ends/Inch		40	40			
•	Filling Ends/Inch		40	. 40 2.0	1.6	1.6	1.6
	Man. Oz./Sq -Man. Oz./Sq		2.0 2.4	2.4	•••		
	Hidth Hinimum Roll Lengt	h	50 .Yards	50 Yards	50 Teres	50 Tards	50 Yards
	Hinama Bress				59	50 50	50 50
	_	F			50 .7	.,,	7
	Hintown Tear	į			•	,	•
	Hastman Shrinkage Hastman Elongation		,				
	Mexicum Mon-Fibrou	F					
	Maximum Air Permes						
Processes:	Singerng ?	•					
	Eleaching ?		•				
•	Hercerizing ?			1		ı	1
	Dyeing ? Printing ?			£		1	
	Coating ?		1	*	1		1
	Fusing ?		-14	At 14	Ac 1d	Acid	ÆI
	Oyes Used ?		Polyurethane	Pel yurethene	Pel parethene	Pelyurethate	Polywrethene
	Coating Used ? [nfrared Reflect ?	,	1		1	1	
	Odor Test ?		1	1	1	t I	
	Water Repellent ?		1	1		1	i
	Hydrostatic Resist	7 .	ì	i	i	ī	1
	Costing Adhesion ?		Ĩ.	1			•
	Coating Distributi		1	1	1	.3	1
	Blocking ?			. 1	:	i	i
	Color Metching ? Labile Sulphur ?	•		ī	-	-	
	Resistance to Inse	ett					
	Repel 1			1	1	1	1
	Leatage ? Spray Reting ?		·	i	Ĭ	1	1
	Colorfastness †		T.	1	1	į	
	pot Test 7		1	ı	I	*	•
	Mildew Resistance Resin Finish ?	T					
	Sallistic Resista	nce 7					
	Antistatic ?						
	Heet Resistance ? Flame Resistance :						
	Durable Press	•		•			
	Shrink Resistant						
	Crease Resistant Soil Release Trees						
	Antistatic Finish			•			·
	Repod						
FIBERS	Types of Fibers		1710A 100.0	Hylen 100.0	Nylon 100.0	Nylon 100.0	. Hylon 100.0
	S in Yern S Telerence		100.0	100.0	100.0		
	Staple Length Denter		230-220	200-220			
	Tenecity Cross-Section						
	Luster Type Hoel		S.D. or Bright	S.D. or Sright			
	Grade Wool						
*	Trestment's						
	Type Armid	_					
	Carbonization Tem Treatments	7.					
YARNS	Cotton Count	¥					
	Ply	, N					
	Type Yarn	¥					
	Carded or Combed	ý		•			
INTENDED US	, 1	,	Weather	sige ther	Jungle	Jungle	Jungle
THICADED (1)	.		Geer	Geer	Gear	See	Gear

			MIL-C-168 Class 1	411C-368 Class 2	MIL-C-368 (1ass)	HTL-2-508 Type 1	MIL=C-508 Type II
FASRIC	Generic Name		Twiff 2/1 Right	Twill 2/1 Right	Satin 5 Harness	Onf ord Plans	Gaford: Plain
	weave warp Ends/Inch		121	142	180	1.00	180
	"illing Ends/Inch		67	71	67	76	76.
	Weight-Min. Oz./Sq. -Max. Oz./Sq		1.7	4.2	4.5 >4[*	2.9	23,9)
	Width		>41"	>41° 50 Yards	SQ Tanis	40 Tards	40 Yards
	Hinima Roll Langti Hiniman Break	١	50 Yards 100	115	150	220	220
		ř	S0	55	55	135	135
•	Hintem Tear	' W		•			• •
	Nex teum Shr Inkage	¥	6.0 1.0	6.0 3.0	6.0 3.0	2.0	2.0 2.0
	Marimum Elongation	F	•				1.0
	Heatmus Non-Fibrou Heatmus Air Perment					1.0	1.0
Processes:	Singeing ? Bleaching ?						
	Mercertzing ?				1		1
	Dyeing ? Printing ?		. 1	•	•	i	X X
	Coating ?						
	Fusing 7						Acid/Oisparsa
	Oyes in ad ?		Direct	Direct	. Direct	Ac 16/81 sporte	WE INTO I SHOW JA.
	Cod ised? Infrared Reflect?						£
	Oper Test ?						
	Ma Repellent ?					1	Î.
	Hyd .static Resist	7				1	•
	Stiffness ? Casting Adhesion ?						
	Coating Distribute	on ?					
	Blacking ?			1	. 1	1	1
	Color Matching ? Labile Suiphur ?		1	i	î	•	
	Resistance to inse	ct					
	Repe! 7						
	Leakage ? Spray Rating ?					I	1
	Colorfastness ?		1		2	I	
	pH Test 7		1		x	1	1
	Hilden Resistance	?					
	Resin Finish ? Ballistic Resistan	ee t					
	Antistatic ?						
	Heat Resistance ?	_					
	Flame Resistance : Durable Press	1					
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treat Antistatic Finish	Complete C					
	Respect						
			Rayon	Rayon	Rayon	Hylan	Nylon
FIBERS	Types of Fibers 2 in Yern		100.0	100.0	100.0	100.0	100.0
	5 Tolerance						
	Staple Length					4	
	Denier Tenetity						
	Cress-Section						Bright
	Luster					Bright	ar dur
	Type Wool Grade Wool	,					
	Treatments						
	Type Aramid						
	Carbonization Tem	٠.					
	Treetments						
YARHS	Catton Count	¥					
	Ply	¥ F					(a 131 1)
	Type Yern	¥	Multi-Filament		Multi-filament Multi-filament	Malti-Filament Malti-Filament	(51PE) (31PE)
	Carded or Combet	F	Mylti-Filament	Muit1-Filament	METERS I I SHOULD	Harris and a second of	1
	Larges or Compet	f					
					Overcoats	Clathing	Coating
INTENDED U	<u> </u>		ge111ty Use.	Coats	Address	and	
			Hets	yn i forms		Eau 18490	

			4fL=C=7219 Type (MfL-G-7219 Type II	MIL-C-7219	11t-C-44090	HIL-C-44090 Type ([
FARRIC	Generic Yama		Ouck	Ouck	Duck	Plain	Plain
	Meave		914IR 90	P144A 78	Flain 60	30	34
	Warm Ends/Inch Filling Ends/Inch		30 38	18	15	30	13 13.5
	detght-Min. Oz./Sq -Man. Oz./Sq		9.5	8.75	- 7.25	9.0 8.5	14.5
	diden Hinnaus Apil Léngt	•	10 Yards	40 fares	40 Tards	80-120 Yards	80-120 Yards
	Hin Iman Break	." F		•			•
•	Hintma Tear					*	•
	Maximum Shrinkage	¥	2.5	2.5 2	2 2	•	•
	Maximum Elongation	r d F					
•	Taximus Nea-Fibron Maximus Air Persed		5	5		•	
Processes:	Singaing ?	•		•			•
	Sleaching ? Norcerizing ?						
	Syeing ?						
	Printing ? Coating ?						
	Fusing ? Dyes Used ?		•			·	
	Coating Used ?			•			
	Infrared Reflect 1	7	•				_
	Water Repellent ?		t	1	1	*	
	Hydrostatic Resist		1	•	-	•	
	Coating Adhesion	7					
	Coating Distribut	1 00 7	1	1	1		
	Color Metching ?		1	1	T.		
	Labile Sulphur? Registant to Inser	et					
	Reset ?						
	Leakage ? Spray Rating ?		1		1	I	
	Colorfastness ?	•	. 1	1	1		* .
	Hilder Resistance	7					
	Resin Finish ? Bailistic Resista	ee 1				1	ŧ
	Antistatic ?						
	Heet Resistance ?						
	Durable Press						
	Shrink Resistant Creese Resistant	•	i				•
	Soil Release Treat Antistatic Finish						
FIRERS	Hooped Types of Fibers		Nylon	Rylon	Tylon	Ar unid	hr said
- 13673	- \$ in Yarm		100.0	100.0		100.0	100.0
	S Tolerance Staple Length						_
	Denier			High	HI co	1,000 > 20 G/Den	1,500 > 20 G/Omn
	Tenacity Cross-Section		High	<u> </u>	•	> 10 m om	
	Luster Type Wool		Bright	Bright	3r1ght		
	Grade Wool						
	Treatments Type Arabid						
	Carbonization Tem Treatments	•.					
*48145	Catton Count	ų					
	#1y	f	Singles	Singles	Singles	Simples	Singles
	•	F	Singles	Singles	Singles Flat Filement	Simples Flat Filament	Singles Flat Filament
	Type tarm		at filament at filament	Flat Filament Sout	Flat Filament	Flat Filament	Flat Filament
	Carded or Combed						
'4FEH0ED 115	<u>e</u>		Parachute Packs	Parachula Paçta	ferechute Fects	Fragmentation and Sullet Protection	Fragmentation and Builet Protection

			HIL-C-434			HIL-C-43251	MfL-C-43251
FARRIC	Generic Name		Sasket(2x2)	Plain	Twill		P11e 12/32
	Weave Warp Ends/Inch		90	70			14. 55
	Filling Ends/Inch		.84	47	7.5		
	weight-Min. 02./5q -Max. 02./5q		5.0	4.3	8.5		•
	Width		45*	45*	60 Years		10 Yards
	Minimum Roll Langt Minimum Break	N w	40 Yards 100	40 Yards 180	50 Yerds 225	•	,
		F	100	100	210		•
	Minsmum Tear	. A	15 15	. 12			
	Has Imus Shrinkage	W		4			
	Maximum Elongation	F	1.5	l:5			
		F					
	Hazimum Hon-Fibrou Hazimum Air Permea		•	•			
Processes:	Singeing ?		•				
	Sleaching ? Mercarizing ?		•				
	Desiral s		Hylon Extrusion	Nylon Extrusion		. 6	x
	Printing ?						
	Coating ?						
	Dyes Used ?		•				Basic
	Coating Used ?		•	Ch	lorograme Rubbar		
	Infrared Reflect !	•					
	Meter Repailent ?		**				
	Hydrostatic Resist	. 7	•		1		
	Coating Adhesion 1	•			1		
	Coating Distribut	on ?			-1		
	Blocking ? Color Hetching ?		x	1			
	Labile Sulphur?						
•	Repai ?	:\$					
	Leakage ?						
	Sorey Rating 7					•	
	Colorfastness 7 on Test 7			1		1	•
	Milder Resistance	?	•				
	Resin Finish ? Ballistic Resista	1		i .			
•	Antistatic 7		· • • • • • • • • • • • • • • • • • • •				•
	Heat Resistance ? Flame Resistance		1	r	ı		
	Durable Press	•	•	•			
	Shrink Resistant Creese Resistant		•				
	Soil Release Trea	teent					
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers		Aromatic Hylon	Arometic Hylon	Hylan	Pile-Acrylic	Backing -Cotton. Poly or Acrylic
	I in Yarn I Tolerance		109.0	100.0	100.0	100.0	100.0
	Staple Length		. 1 1/2"-2"	1 1/20-20			
	Denier		1.5 Den/Filement	1.5 Den/Filement			
	Tenacity Cross-Section					•	
	Luster		•				
	Type Wool Grade Wool						
	Treatments						
	Type Aramid Carponization Tem						
	Treatments	••					
YARNS	Cotton Count	¥	24/1	37/2			10/1
		F	24/1	37/2			10/1
	Ply	ų F	Singles Singles	2-P1y 2-P1y			
	Type Yarm	¥	Flat Filament	Flat Filament			Spun
	Carded or Combed	F	Flat Filament	Flat Filament			
	COLDAN OL COMMEN	;	•				
INTENDED USE	<u>t</u>		Flying Clathes	Flying Clothes	Cold and Wet		Liners
	-		• •	, ,	Weether Clothing		

			M1L -C-43594	41L-C-2914	MIL+C-29147	MEL-C-43842	MIL-C-97052
145 9 10	Generic Name		Plain	Plain		Oxford	Twill
	weave warp Ends/Inch		62		50	Plain 124	2/1 Right 67
	Filling Ends/Inch		40		40	46	58
	weight-Min. Oz./S		314		5.7	5.6	5.5
	-Max. Oz./Si - Width	q, Yd.				6	6.5 60°
	Minimum Holl Leng	th	40 Yds.		40 Yds.	40 Yds.	40 Yas.
	Minimum Break	¥	200		. 120	300	200
	Minimum Tear	u	125		90 7.5	120	150 12
		F			6.5		12
	Meximum Shrinkage	H F	2.0 2.0		2.5 2.5	2.0 2.0	2.0 2.0
	Maximum Elongation		2.0		2.5	2.0	2.0
	Marin - Non Elban	, F	2.0		2.5	2.0 1.0	2.0 3.0
•	Maximum Non-Fibros Maximum Air Perme				8.5	6.0	3.0
Processes:	Singeing '						
	Bleaching / Mercenizing ?						
	Dyeing ?						
	Printing?		:	4			
	Coating? Fusing?						
	Dyes Used ?						
	Conting Used 7 Inframed Reflect 1	,					
	Odor Test 7						
	Water Repellent ?						
	Hydrostatic Resist Stiffness ?	. ?	1				
	Coating Adhesion ?						
	Coating Distributi Blocking 7	On ?					
	Color Matching 7				*	x	£ .
	Labile Sulphur?		•		1		
	Resistant to insec Repel 7	t					
	Leakage 7						
	Spray Rating ? Colorfastness ?				1	1	
	pH Test ?		x		1	ž	ž
	Hildry Resistance	7					
	Resin Finish 7 Ballistic Resistan	ce ?					
	Antistatic 7	-				X X	
	Heat Resistance ? Flume Pesistance ?					•	
	Durable Press						
	Snrink Resistant Crease Resistant						
	Soil Release Treat	ment	0				
	Antistatic Finish				*		
FIBERS	Types of Fibers % in Yarm		Polyester 100.0	₹olyester 65.0	Rayon 35.0	Nylan 100.0	Polyester 100.0
	% Tolerance			<u>*</u> 5.0	25.0		
	Staple Length Denier				. 7	1 1/2"-2" 2/Filament	150
•	Tenacity					27F 1 Coments	Begular :
	Cross-Section						Octalobal
	Luster Type Wool		•				Semi-Dull
	Grade Wool						
	Treatments Type Aramid						
	Carbonization Temp						
	Treatments						
*ARNS	Catton Count	¥				22/1	
	01	F			2.01	. 22/1	
	P1y	¥		7.1	2-Ply Ply or Singles	Singles Singles	
	Type Yarn	u	Flat Mult, Fila.	Spun	Spun	Spun	Tex. Fila.
	Carded or Combed	F	Flat Mult, Fila.	Spun	Spun	Spun	Tex. Fila.
	22. 060 W. COMDEQ	ī					
INTENDED USE	•		interlining		Shirts	Clothing.	Stacks
			to see a comp		J	Seat Covers,	and
						Vests	Skieti

			411-0-12369 	MIL-C-12369 Class 2	MIL-C-12369 Class 1	MTL-C-51251
FARRIC	Generic Name Weave Warp Ends/Inch Filling Ends/Inch		Ballistic 2x2 Basket 46 42	Ballistic 2x2 Basket 46 42	Ballistic 2x2 Basket - 46 - 42	Plate
	Weight-Min. 01./54.		13.5 15.0	13.5 15.0	13.5 15.0	7.g
,	Vidth Hinnaum Roll Langt? Hinnaum Break		48"-49" 80-120 Yds. 900	48°-49° 80-120 7ds. 900	48"-49" 80-120 Yds. 900	100-300 Yes.
	Hiniman Tear	ę W	525	825	525	
	Hazimus Shrinkaga	F V	3.0	2.0 2.0	1.0 2.0	
	Maximum Elongation	ų F	2.0			•
	Hazimus Hon-Fibrous Hazimus Air Permeal					
Processes:	Singeing ? Bleaching ? Mercarizing ?					
•	Dyeing? Printing? Coating?		•	1	t t	x (
	fusing ? Oyes Used ? Coating Used ?			ÆIĞ	Acid	Sutyl Auster
	Infrared Reflect ? Odor Test ? Water Repellent ?			x	1	1 1
	hydrostatic Resist Stiffness ? Coating Adhesion ?					i 1
	Coating Distributs Blocking 7 Color Matching 7 Labile Sulphur?			1	£	. 1
	Resistant to Inset Repel ? Lenkage ?	t		_	_	
	Spray Rating ? Colorfastness ? pH Test ? Hildew Resistance	,		: : :	I I I	
	Resin Finish ? Bellistic Resisten Antistatic ?					
	Heat Resistance ? Flama Resistance ? Durable Press		•			
	Shrink Resistant Greese Resistant Soil Release Treat Antistatic Finish Reoper	sent.				
FIBERS	Types of Fibers S in Yarn S Tolerance		Nylon 100.0	Hylon 100.0	Nylon 100.0	Nylon 100-0
	Staple Length Denier Tenecity		1,050 High	1.090 High	1,050 High	
	Cross-Section Luster Type Wool Grade Wool Troatments Type Aramid Carbonization Tema	•	B right	Bright	Sright	
*ARHS	Treatments Cotton Count	¥				
	Fly	F H F	Singles Singles	Singles Singles	Singles Singels	
	Type Yarm	W F	Flat Filament Flat Filament	Flat Filament Flat Filament	Flat Filament	•
	Carded or Combed	F	•			
INTENDED USE			Bellistics Cloth	Beilistics Cloth	Ballistics Cloth	CBR Protective Heads

		HIL-C-41820 Type !	MIL-C-41820 Type I	MIL-C-41820 Type 11	HIL-C-41820 Type (I	HEL-C-41820 Type 111	MIL-C-41820 Type !!!
FARRIC	Generic Hame weave wary Ends/Inch filling Ends/Inch weight-Min. Oz./Sq. Yd.	Gabardine 2/1 Aight 110 52 6.0	Gabardine 2/1 Right	Gabardine 2/1 Right 110 62 6.4	Gabardine 2/1 Right	Gabaritine 2/1 Right 92 42 4.0	Genordine 2/1 Right
	-Max. Oz./Sq. Yd. didth Hinimum Roll Langth Hinimum Break W	40 Yds. 210 90	40 Yds.	40 Yds. 210 105	40 Tds.	40 Yds. 280 120	40 Yds.
	Hinimum Fear W	**	4			, , , , , , , , , , , , , , , , , , , 	
	Has Intel® Shrinkage W	1.\$ 2.0		2.5 1.5		3.5 2.0	
	Maximum Elongacion W				••		
Processes:	Maximum Men-Fibrous Mat. Maximum Air Permeability Singeling 7 Steaching 7	2.0 .		2.0		2.0	
•	Mercerizing ? Dyeing ? Printing ? Coating ? Fusing?	ŧ		t		ı	
	Oyes Used 7 Coating Used 7 Infrared Reflect 7 Ower Test 7	Yats/Disp orse	Vets/01sperse	Yets/Olsperse	Vats/01spers4	Yets/Otsporte	Vecs/81sperse
	Water Repailent ? Hydrostatic Resist ? Stiffness ? Coating Adhesion ?	•					
	Coating Distribution ? Blocking ? Calor Matching ? Labile Sulphur? Resistant to insort			1		I .	
	Reset ? Leanage ? Spray Rating ? Colorfestness ?			ı		· I	
	ph Test ? Hilder Mesistance ? Resin Finish ? Ballistic Resistance ?	i		Ĭ			
	Antistatic ? Heat Resistance ? Flame Resistance ? Ourable Press Shrint Resistant						
	Creese Resistant . Soil Reimese Treetment Antistatic Finish Nappod						
FIRERS	Types of Fibers S in Term S Tolerance Staple Lampth Denier Tenacity Cross-Section Luster	Polyester 70.0 •5.0	Rayun 30.0 <u>+</u> 5.0	Polyester 70.0 95.0	Rayuh 30.0 	folyester 70.0 ±5.0	Rayeri 30.0
	Type west Grade Woot Trestments Type Arand Carbonization Temp. Trestments						
TARKS	Cotts Count W	40/2 40/2	40/2 40/2	40/2 40/2	40/2 40/2 2-81	40/2 40/2 Z-P1y	40/2 40/2 2-91-
	Ply V	Z-Ply Z-Ply	2-81y 2-81y	2-Ply 2-Ply Sour	2-Ply 2-Ply Spun	Z-Pty Spun	Z-P1 y Soun
	Type Yarn W F Carded or Combed W F	Soun Soun	Spun Spun	Spun Spun	Serw Serw	Spen	Soun
INTENDED US	<u>E</u>	Clocking	Cleanine	Clothing	Clothing	Clathing	Clathing .

	•		MIL-C-43525 Type I	MIL-C-435 Type 1	25 HEL-C-43525 Type 11	ML-C-43525
FARRIC	Generic Name			Satin		Satin
- manty	Heave			S-Harness		A-Herness
•	Warp Ends/Inch			275		199
	Filling Ends/Inch			95 9.0		4 4 8.2
	Height-Min. 02./5			7.0		* ***
	Width	.q . .				
	Minimum Roll Leng			50 Yds.		SO TES.
	Minimum Break	¥.		85		140
	Hintown Tear	, u		100		56
		Ë				
•	Haziman Shrinkaga	, y		4.0		4.0
	#10.000 floores.c	F La U		2.0		2.0
	Maximum Elongatio	,				
	Hazimus Hon-Fibro	lus Het.				
_	Maximum Air Perme	ability .	•			
Processes:	Singeing ? Bleaching ?					
	Hercerizing?		•		•	
	Oyelng ?			1		
	Printing ?					
	Coating ?					
	Fusing ? Over Used ?					
	Coating Uses ?					
	Infrared Reflect	7				
	Odor Test ?					
	Water Repellent 1					
	Hydrostatic Resis	16. 7				
	Coating Adhesign	7				
	Coating Distribut					
	Blocking ?			_		_
	Color Matching ? Labile Sulphur?			1		1
	Resistant to Inse	ct	•			
	Repel 7					
	Leakage ? Spray Rating ?					
	Colorfastness ?			I		1
	pH Test ?	_		1		1 .
	Mildew Resistance Resin Finish ?	7				
	Ballistic Resists	mee 7				
	Antistatic 7					
	Heat Resistance ?					
	Flame Resistance Ourable Press	•				
	Sheint Resistant					
	Crease Resistant					
	Soil Release Trea Antistatic Finish					
	Happed	•				
FIBERS	Types of Fibers		Acetate	Rayon	Rayon	Cotton
	1 Talerance		Verp	Filling	Warp	Filling
	Staple Length					
	Denter					
	Tenacity Cross-Section					
	Luster					
	Type Wool					
	Grade Wool Treatments					
	Type Arenid					
	Carponization Temp) .				
	Treatments			-	*	
TARKS	Cotton Count	¥	100 Denier		168 8	
		F	रसक त्यानक	14/1	150 Denter	₩1
	Pty	¥				**
	Type Yern	F	m-144 #11:	Singles		Singles
	· ygre i erri	ř	Multi filament	Spun	Multi filament	•
	Carded or Combed	¥		a proper		Spun
		F				Compad
INTENDED USE			Maman's	Wanners*s		
			Overcoat.	Overcost Section 3	Women's Overcoat	Veren's Overceat
			Lining	Lining	Lining	Lining
				•	•	- ****

		HEL-C-41820 Type I	MIL-C-41820 Type 1	MIL-C-41820	**************************************	41L-C-41820 Trop (1)	41L-C-41820 Type :11
FARRIC	Generic Hame Weave Ware Ends/Inch	Gabardine 2/1 Right 110	Gabardine 2/1 Right	Generatine 2/1 kight 110	Gabardine 2/1 Aignt	Gabardine 2/1 Right 92	Gabardine 2/1 Right
	Filling Ends/Inch Weight-Him. Oz./Sq. YdMax. Oz./Sq. fd.	52 6.0		62 6.4		42 8.0	
	iddth Mannas Roll Langth Mannas Sreak id .	40 Yds. 210	40 Yds.	40 fds. 210 105	40 Yds.	40 7ds. 230 120	40, Tds.
	Hinimum Fear V	90		103		100	
	Heatenus Shrinkage - V	3.\$ 2.0		2.5 1.5		1. \$ 2.0	
	Maximum Elongacium d		•			• •	
Processes:	Maximum men-fibrous macMaximum Air Permanellicy -Singeling ? -Sileaching ?	2.3 .		2.9		2.0	
	Mercartzing ?			ι		1	
	Princing ? Coating ?						
	Fusing? Dyes Used ? Coating Used ? Infrared Reflect ?	Yets/01sparse	Yats/01sperse	Vats/01sperse	Vats/Disperse	Yets/01sperse	Yets/01sperse
	Oder Test ? Water Repollent ? Hydrostatic Resist ?		·		1		
•.	Stiffness ? Coating Admesion ? Coating Distribution ? Blocking ?		·				
	Color Matching ? Labile Sulphur? Resistant to insect	1		1		1	
	Resei ? Leanage ? Spray Rating ? Color/astness ?	I		1			
	pi Test ? Mildew Resistance ? Resim Finish ? Ballistic Resistance ?	t				ŧ .	
	Antistatic ? Heat Resistance ? Flame Resistance ?						
•	Oursble Press Shrink Resistant Creese Resistant . Sail Release Treatment			,			
	Antistatic Finish						
FIBERS	Types of Fibers E in Tarn E Tolerance Staple Longth	Polyester 70.0 5.0	tayon 30.0 	Polyester 70.0 ±4.0	Rayon 30.0 _5.0	Polyester 70.0 _5.0	Rayon 30.0 <u>-</u> 5.0
	Denier Tenacity				· · · · · · · · · · · · · · · · · · ·		
•	Cross-Section Luster Type Wool Grose Wool Treatments						
	Type Aramid Carbonization Temp. Treatments						
TAPHS	Catton Count W	40/2 40/2	40/2 40/2	40/2 40/2	40/2 40/2 2-P1y	40/2 49/2 2-91y	40/2 10/2 2-21v
	Trees Vacon V	2-Ply 2-Ply 5	2-P1y 2-P1y Soun	z-Ply z-Ply Soun	2-Ply Soun	2.21y Soun	2.21y Seen
	Type Yarm N F Carees or Consess 4	Spun Spun	20Mb	Soun	Saun	Span	Soun
INTENDED US	. , <u>.</u>	Closning	Clothing	Clathing	Clathing	Clathing	Clathing

	•		411-5-31	#1L-C-218	\$2 41L-C-21	11L-C-21	41-C-218	12
FARRIC	Generic Sets		Plain	Taffeta	Taffeta		Taffeca	
	40.070			Plain	#141R	Plain	21410	
	derm Ends/lnch		30 56	100	15 65			
	Filling Ends/Ench desage=#10, 02,/5	4. 14.	1.3	66	03	2.0		
	Haz. 02./5	4. 14.	4.8	1.2	1.5			
	Tin House Reil Lane	CR CR	40 Yds.	75 Tes.	75 Tds.	46 141.	40 145.	
	Minimus Sreak	₩	275	90	75	110		
	Vinters Tear		225	. 55	75 4	95 3.4	es S	
	410 table 1000	•	•	•	i	1.0		
	Sections Stefenage	i i	1.0	2.0	2.0		2.0	
	· ·	•	2.0	2.0	2.0			
	Maximum Elangacio	4 Y	3.0	2.0 2.0	2.0		2.3	*
	Waters Ten-Flore	wa Maé.	2.0 2.9	2.0	2.0			
	Vacana Air Jeres	mility	***	•••				
*********	Singeing ?							
	Eleaching ?							
	*Greanteing !		1	1			٠ و	
	Dyeing ? Printing ?		4	•		•	•	
	Coating ?							
	Fusing ?							
	Syes Uses ?		Ac14	Actd	Ac16	Actd	AE14	
	Grating Used ?							
	Infrared Reffect Odor Test ?	r						
	Hater Resellent ?							
	dydrostatic feels	t !						
	Stiffness ?		4	¥.	£.	1	1	
	Coating Admoston Coating Distribut	, ,						
	Stocking !	1997 7						
	Color Metching ?		1	1	. 1		1	
	Labile Sulphur!		1					
	Peristant to Inser	Et						
	Lastana 7		•		•			
	Leakage ? Sersy Rating ?		ŧ					
	Calorfascness !					1		
	34 fest ? Hilden Resistance		1	1	x	1	1	
	Tests Finish ?	•		•				
	Sallistic teststa	Rto ?				•		
	MEISEARIC ?							
	Hoat Teststant ? Flame Resistance			1			1	
	Gurable Press	•					•	
	Serine Resistant							
	Crease Poststant							
	Soil Refease Trees Antistasic Finish	taun t						
	Separate Planta							
FIBERS	Types of Fibers		Tylan	Tylan	Tylon	Tylon	Tyles	
	S in fam. S Tolerance		100.0	100.0	100.0	100.0	100.9	
	Staple Langta		•					
	Jenier							
	Tenecity			Require	Requiar	Requier	Requier	
	Gross-Sertion		åriget	Sept-0e11	Seen -Out 1	(ant-Out)	Same-duil 1	
	Type week		ar ignic	3891-6411	App001 1		-	
	2 360 4061 ····							
	Treatments Type Arabid							
	Caroenization Test).						
	"restments							
							<u>.</u>	
168175	Setton Count	4		50 Center	50 Senter	75 Jan1er 70 Jan1er	78 Santer 75 Canter	
	214	-		50 Denter	70 Senter	· /U Um147	O CONTRA	
	•	į						
	Type farm		Multi Filament	Mitt filmmit	WIEL FILMONE	With Filamore	Waitt Filament	
	fartes or Compas	7	Mult1 Fillwant	Witt filemet	Welts Filsment	"Meles Filamone	melts filament	
	~ 	ř						
STE TOES HEE			fucas aca.	* or nebutat			? to activation	
	•		**************************************	"ar activation ing	To activities and	³ SP SERVERS ME	7 SF 603160 000	
				Linings	_inings	Lintags	\$18 1998	
				**		•	-	

			416-0-4181	412-6-4	9[L=0-44 3234 Types]	
FARRIC	Generic Yame Weave		Twill 2/2 Right	2141	n 21ain	Plain
	darm Ends/Inch Filling Ends/Inch		18	64		
	deight-Min.)z./S	a. Y1.](1.8		
	-Max. Uz./S		5.6	•	9.3	
	didth Minimum Poll Lengt				48"-49"	
	Minimum Break	en Va	40 Yds. 185	40 Yds.		30-120 Yds.
		•	160	, , , , , , , , , , , , , , , , , , ,		
	Minimum Tear	4	13			
	Maximum Shrinkage	4 F	13 2.0	4.5		1.0
	Maximum Elongation		2.0	3.5	2.0	2.0
^a rocesses:	Maximum Mon-Fibrou Maximum Air Permea Singaing ?		1.0			
	Steaching ? Mercentzing ?					•
	Tyeing ?		*		r	· 1
	Printing?			_	. •	î
	Coating ? Fusing ?					
	Jyes Used ?				4c 1d\$	10140
	Coating Used ?				-c.103	Ac I ds
	Infrared Reflect ? Odor Test ?				1	x
	Water Repellent ?				1	
	Hydrostatic Resist	7	•		•	ž.
	Coating Adhesion ?					
	Coating Distribution	m ?				
	3lacking ?					
	Calor Metching ? Labile Sulphur?		X .	, *	x	1
	Resistant to Insect	:				•
	Repel ? Leakage ?					
	Spray Rating ?					
	Colorfastness ?		t	· *	t	
	pH Test ? Mildem Resistance ?		x	*	x	1
	Res in Finish ?		•			
	Ballistic Resistance	• ?			•	
	Antistatic ? reat Resistance ?		x			
	Flame Resistance ?		•			
	Jurable Press		•			
	Shrink Resistant Crease Pesistant			•		,
	Soil Release Treatme	mt				
	Antistatic Finish Nacped					
FIBERS	Types of Fibers		Aramid	Acryl Ic	Tylon	Yylan
	% in fern % Tolerance		100.0	100.0	100.0	100.0
	Staple Length					
	Jensee Tenacity		2/F11 ament	3/Filament		
	Cross-Section				Extra-High	Extra-righ
	Luster				Bright	Bright
	Type Wool Grade Wool				J. 1,	or igits
	Treatments					
	Type Aramid					
	Jarbonization Temp. Treatments					
*4845	Catton Count W				346 Den.	340 Jen.
	Ply F		Singles	Singles.	340 Oem.	840 Jen.
	Type fair a		Singles	Singles		•
	Type Yan a		filament Filament		Multi Filament	Multi Filament
	Carded or Comped 4		· · · · · · · · · · · · · · · · · · ·	Spun	Multi iffament	Multi Filament
INTERICED ISE			***			
110			Flight Clathing	Insulating Can	Sody Armor	3ody Armyr
OLUME	•		165,423	+0.900	90,984	

		HIL-C-20006	411_C-20690 Type 11	1790 [[]/Class [411-C-20698 Type (11/Class /	411-C-20648 Type [[]/Class	412C-20506 3 Type (11/Class 5
FARRIC	Center to Terminative services for Inch Filling Ends/Inch Filling Ends/Inch satisfication, 32./54. fd	Ptain Ptain 18 18 2.1 2.5	Ptain Ptain 22 21 4.8 5.4 5.4 19° 80-125 Tds.	Plain Plain 50 45 7.25 7.25 19°	Flain Flain 50 45 7.25 > 19" 30-125 Yds.	21 ain 21 ain 50 45 7.25 > 19° 30~125 146.	Plain Plain 50 45 7.25 - 19° 90-125 'du.
	HINTOWN ROLL LONGER HINTOWN BROKE GINTOWN FROM S GINTOWN FROM S	30-125 7ds. 115 115	225	125 275 20 20	12\$ 27\$ 20 29	325 275 20 20	325 273 20 20
	Hastenas Serintage W						
	TEXT TO SERVICE TO SERVICE TO SERVICE TO SERVICE TO SERVICE THE SERVICE TO SE						
	dga tagan dipinin tordan man- dga tagan Air Jordan 112y Sindan di Bleaching 7 marcan 121ng 7 Jyang 7						
	Permetra 7 Taating 7			1	t	x	
	Fusing? Oyes Used ? Coating Used ?	•		Chlorepress 1	linyi Chiqrida Palyatir	Chieropean	Altriic Subber
	infrares Reflect ? Odor Test ? Water Reselient ?		4		-		
	Hydrostatic Resist ? Stiffness ? Coating Admostom ? Coating Distribution?		ſ	1 1 1	: 1 1 1	i : :	1 1 1
	Slocking? Color matching? Lable Sulpror? Resistant to [minet Angel ? Lablege?	i	1	i	i		3
	Serly Mating ? Colorfastness ? no Test ? Hildew Mesistance ? Radinstic Resistance ? Autistatic f Heat Resistance ? Flame Resistance ? Ourable Press Shrine Resistance Lots Release Treatment Autistatic finish Tappes			ţ	•	1 1	
FIBERS	Types of Fibers 6 in rain 6 Solerance Staple Length	Hylon 106_d	яу і ов 100-0	Hylan 190.0	191as 109.0	109-9	hylad 106-9
	Demier Temacity Grass-Section	High	111 g/b	High	ntiga	H1996	1198
	Coss-Section Custer Type Wool	8/1qnE	årtq at	Sriges	tright	le i ght	Se 1916
	Grade wool Treatments Type Arheid Curbonization Tambo Treatments				,	. mrt	
- ARMS	Catton Count 4 Aly 4 From Yarn 4 Landag or Compad 4	Singles Singles Filamos Filamos	Singles Singles Filament Filament	Simples Simples Filement Filement	Simples Simples Filament Filament	Singles Singles Filanets Filanets	Singles Singles F11 amons F17 amons
(MTENDED U	<u>u</u>	Covers ine Shelters	Covers see Shelters	Suretvai Containers	Lurvinal Concainurs	Survivat ContAindra	Survivet Contoiners

			MEL-C-21108 Type [MIL-C-21108 Type II	HIL-C-1900	. HEL-C-339 7:pe 1	5 41L-C-3395 Type 11
FABRIC	Guneric Name		Twitt	Plain	Twill	Mettine	Metting
	Weave		Rip-Stop	Piain	2/1 Right	Lang Plans	
	Harm Ends/Inch		80	72	•	55	55
	Filling Ends/Inc		80	22 4.5	3 or 9	55	55
	weight-min, Uz./ -Max. Oz./ width		2.4 2.7	5.5	3.3 to.7	1.6	2.0
	Hinimus Roll Len	gth .	50 Yds.	50 Tds.		108 Yds.	100 res.
	Hintown Break	•	115	225		50	50
	Minimus Tear	F	115 8	225 45		. 50	. 50
		F	ä	38			
	Hastinum Shrinkan	e W	2.0	2.0 2.0		2.0	2.0
	Has Imas Elongatio		2.0 2.0	2.0		2.0	2.0
	Man ban 51b	F	2.0	2.0	•		
	Hazimin Hon-Fibri Hazimin Air Perm		1.0	1.0			
Processes:	Singerng ?		•		,	•	
•	Sleaching ?						
	Mercerizing ? Dyeing ?					1	1
	Printing ?					•	•
	Coating ?				1		
	Fusing 7						
	Dyes Used 7 Coating Used ?			n.i	ychiorearene		
	Infrared Reflect	1 .		,,,,	,		
	Odor Test ?	•			I		
•	Water Repellent 1 Hydrostatic Resis				1 2		
	Stiffness ?	B			î		
	Coating Admeston	7			ĩ		
	Coating Distribut	tion ?			1		
	Biocking ? Color Mesching ?				. I	1	
	Labile Sulpher?				•	•	•
	Resistant to inse	K t					
	Repel 7				. I		
	Leakage ? Spray Rating ?						
	Colorfastness ?		•		Ţ	2	1
	pH Test 1		1	I	x	I	
	Hildaw Resistance Resin Finish ?						
	Ballistic Resista	ince ?					
	Antistatic 7					•	
·	Heat Resistance ? Flame Registance						•
	Durable Press	•					,
	Shrink Resistant						
	Crosse Resistant Sell Release Tree	tmet					
	Antistatic Finish						
	National						
FIBERS	Types of Fibers		Hylon	Nylon	Aylon	Hylgh	trios
بتحسيم	I In Term		100.0	100.0	100.0	100.0	100.0
	& Tolerance				-		****
	Staple Length Donier						
	Tenecity		High	High			•
	Cross-Section		•	, , , , , , , , , , , , , , , , , , ,			
	Luster Type Wool		Bright	Bright		Semi-Oull	Sami-bull
	Grade seel						
	Treatments						
	Type Aramid Carbonization Temp	_					
	Treatments		,				
YARHS	Cotton Count	U	840 Den	840 Den		70 ben	70 Den
	₽ly	F M	840 Can	540 0en		70 Den	76 0en
	. 1	F			. *		
	Type Yern	¥				Multi Filament	Mylti filment
	Carded or Combed	F				Multi Filament	
		F		•			
INTENDED USE			Reft	Reft Bettoms	Previous IC	Tentage	Tentage
			Bettons	na c comit	Life Preservers		

			41L-C-4387	4 MIL-C-4337	4(L-C-43204 5 ype	41L-C-43204 Type :1	#IL-C-43204 Type III
FARRIC	Sameric Name	*	Plain	Duck *tara	Spacer 3-warp	Spacer Honeycoms	Spacer 3-marp
	mery Ends/Inch		96	56 28			
	Filling Ends/Inch detent-Hin 32./54		47 9.5	12.5	1.5	15	5.25
	-Ham. 02./54		11.5		. 1	19.5 58*	10.25 53*
	Hats		44*	ao 14s.	58* 25. 745.	35 Yds.	35 ras.
	HIRIMAN ROLL LANGE HIRIMAN Break	.	40 Yes. 170	900	110	175	:10
	718 (100)	š	165	, 700	200	100	190
	Stajem Tear	•	10 10				
	Has town SAFTIREAGE		10	2.0	4.0	8.5 6.2	8.5 2.0
	Has image Elangation			2.3 2.5	2.0 4.6 2.3	9.5 6.2	3.3 2.3
	tering ten-fibro	f 1845	0.5	2.0	2.3		
	TAX INC. AIR PRINC		6.0	3.0			
Processes:	Singaing ?		•				
	Bleaching '						
	Dyeing			t			
	Printing '						
	Coating ? Fusing ?						
	Dyes Used ?			Actes			
	Coating Used ?						
	infrared Reflect	7					
	water Resellent ?	,	1		•		
	Hydrostatic Resis	t 7	_	•			
	Stiffness ? Coating Adhesion	,	1	•	•		
	Coating Distribut						
	Blocking ?		x	1			
	Calar Matching 7 Labile Suiphur?		•	•			
	Resistant to Inse	ĸŧ					
	Repel 7					•	
	Leakage ? Spray Rating ?		x	1			
	Colorfostness ?		i	i			
	pH Test 7	_		1			
	Hilden Resistance Resis Finish ?	ı r					
	Ballistic Pesista	ace 1			*,		
	Antistatic ? Heat Resistant :		ı				
•	Flame Pesistance	,	•				
	Oursble Press					÷	
	Shrink Resistant Creese Resistant						
	Suil Release Tres	tment			_		
	Antistatic Finish						•
	NADOOS						
FIBERS	Types of Fibers		Modacrylic	Hylon	g) ef in	Olefin	Olefia
	\$ in Yarn		100.0	100.0	100.0	100.0	0.001
	% Tolerance Staple Length		1.75*-?*				
	Dan var		1.7-2.8	840	840	840	940
	Tenacity Cross-Section						
	Luster			Bright	Bright	Bright	3rtgnt
	Type Worl Snade Wool						
	reatments						
	Type Arabid						
	Carbonization Tem Treatments	●.					•
YARNS	Cotton Count	v r	12/1				
	Ply	¥	8/1 Singles	3-P1y	1014	3-914	3-21-
	•	F	Singles	3-P1y	3-21y	3-#1y	3-P1y
	Type Yerm	¥	Spun Spun	Multi Filament Multi Filament	Multi Filsment Multi Filament	Multi Filament Multi Filament	Multi Filament
	Curded or Combad	Ú	3 0m	HUIST PTIAMENT	MUSEL PITAMENT	TUICI PIL amont	Multi Filament
÷		F					
INTEROED USE			Tents	Canteen	Cantenn	Canteen	Cantisen
	•			Covers	Covers	Covers	Covers

			411 -C-40039	M1L-C-12189	H1L-C-43774	MEL-C-43734 Class 1	#1L-C-43734 Class 2
FASRIC	Generic Name Weave		Twill 2/1 Right	Tuist1 2/1 Algae	Plain Plain	Quek Pfain	Ouck Plan
	Warm Ends/Inch Filling Ends/Inch					15 28	35 28
	Weight-Min. Oz./S		6	11	3.0	8.5	8.5
	-Mas. 02./S	q. 16.	7.3	13.5		9.5	9.5
•	Width Minimum Roll Lane	en 1	150-175 146.	180-220 Tes.	40 Tds.	40 Yes.	40 765.
	Minimum Breat	₩.	90	180	80	500	SOC
	Minimus Tear	F	••	170	60	300	300
		Ē			4.0		
	Hazimas Shrinkage	F	•		2.0	· · ·	
	Maximum Elongatio	F			4.0 2.0		
	Maximum Man-Fibro Maximum Air Perme			٠.		10	10
Processes:	Singeing ?	-:					
	Bleaching ?			*	•		
•	Mercurizing ? Oyeing ?					i	i
	Printing ?	•					Railer or Screen
	Coating ? Fusing ?		1	£			
	Dyes Used ?					Ac16	Acid
	Coating Used ?	_	Tinyl	Butyl			
	infrared Reflect Oder Test ?	7				Z.	1
	Water Repailent ?						
	Hydrostatic Resist	L T		1			
	Stiffness ? Coating Adhesion ?		1	1		••	
	Coating Distribut		ī	ī		••	
	Blocking ?		3	I .	_	_	_
•	Color Metching ? Labile Swipher?		1	1	2		1
	Resistant to Inser	et					
	Repel ?			_			
	Leakage ? Saray Rating ?		I I	:			
	Colorfastness ?		1	1	1	1	1
•	pH Test 7		1	1	1	. 1	1
	Hilden Resistance Resin Finish ?	,					
	Ballistic Resistar	we f			•		
	Antistatic ?				1	*	
	Heat Resistance ! Flame Resistance !	,			1	•	
	Durable Press						
	Shrine Resistant Creese Resistant						
	Soil Release Treat	tment.	•			•	
	Antistatic Finish Resped					• •	
FIBERS	Types of Fibers		Nylon	Rylan	Aranid	Hylan	Hylon
	S in Yarn		100.0	lno.o	100.0	100.0	100.0
	% Tolerance Staple Langth				1 1/2"-2"		
	Denter		•		1.5-2	1,000	1.000
	Tenecity					•	
	Cross-Section	•	•				
	Type Neel						
	Grade Wool Treatments						
	Type Aramid			•			
	Carbonization Temp Treatments)• '				*	
TARKS	Catton Count	¥					
	Ply	,			Singles	Singles	Sineles
	•	F			Singles	Singles	Singles
	Type form	w			Soun	Suited	Builted
		F .			Soun	Continuous Sulked	Continuous Bulked
		•				Cont I nous	Continuous
	Careed or Conved	¥ F		,	,		
INTENDED USE			Penches	Impermeable	Cover	Shees	Fragment
				Clothing	Fabric		Yests

			#1L-C-3739 1/20 1/C1409 1	MTL-C-3739 Type (/Closs : Size (916-C-2728 7 ypo 1/Class 2 Size 2	491C-3735 Type (/Class	401-2-1775 Topo (()	41L-C-3735 Type-14
FAMIC	Generic Temp Heavy Heles/Ench Courses/Ench		l a L dib Circular test	Le L Efb Circular Ente	l a l fite Circular Ente	L s L Alb Circular Enis		Le. L. RIB Circular ense
	Volgnt-Min. Dg./	Sq. 16 54, 16	15.0	11.0	11.0	11.4	:1.0	12.5
	Vieth Vintege Agil Len Vintege Breek	q ta V	48 7sres	40.7 m/ds	40 Tards	40 Tards	46 Tards	16 Tards
	Warmen Tear	į						
	Taximus Serietas	F						*
	Maximum Elempet II Maximum Manual Iller	F	•		• •			
Processoss	Yesings Air Perm Singeing ? Bleaching ?			3.0	. 3.0	3.0	1.8	1.0
	Harcortzing ? Dyaing ? Printing ? Coating ?		Start					
	Fusing? Byes Head ? Coating Head ?						•	
	Infrared Reflect Oder Fest 7 Weter Republishs		•					
	Hydrostatic Room Stiffnoon 7							
	Coating Admoston Coating Bistribut	† Lion T						
	Blocking ? Calor Matching ? Labile Sulphor? Rosistant to (no				1			1
	Repel ? Lestage ? Sprey Rating ?							
	Colorfosenoss 7 pl Test 1		t t	1	:	1.	t	:
	Midde Assistance Mosim Finish ? Sailistle Assista Antistatic ?		• '		-		•	•
	Heat Resistance ! Flome Posistance Darable Press		r r				•	
	Shrine Applicant Crease Applicant Sal! Release Tree Antigratic Finish	t -m t						
- (Mes	Types of Fibers 1 in term		Yes i LCO. O			- Veel	Polyecter 100.0	le sord
	S Telerance Staple Langth Danier		-5.0	-1.0		. 100.0	119.4	108.0 L.9°;2°
	Tenacity Cross-Section Luster							•••
	Type dool Srade week		Floore or Pollac Flo	nece or Pulled >5819	Floore or Pulled F	logge or fulled	Sant-dy i f	
	Treatments Type Arabid Carbonization Tom Treatments	.	Chlorinetion	Chierination	Chlorinetion	Chlorination		
YARRS	Cotton Count						150 Con.ed Code	_ Autoclara 50/1
	Ply	ì	1.01y	2-019	2- # 1y	2- 21 y).#1y	3071 2-81y
	Type fame	,	Soun	Speci	Spun	ioun	feet, Fitament	Soun
	Carded or Carbos	,	Combad	Company	Combas	Compag		
मार्थकर ।।ऽह			Cuffs. etc.	Cuffs, cte.	Cuffq, etc.	Cuffs. etc.	5aff9, 462.	Sills. etc.

		417.4.7338	<u> 411-5-17157</u>	48L-2-17198	**************************************	90,-2-17155 700 :[1
TABLIC	isheric 1669	28 Gauge Trices Kais	Vefffe zatt Tagenei	*Tests	Fleese	Please 4er9
	Asias/Inch Caurtas/Inch	37 19				
	detentate. Oz./Se. Ye	i. 1,3	10 1	.1.1	. 1	.2
	-4an. 02./54. 14	. 2.2 50°-40°	12.1	11.5	1.4	19
	- Tinimus Reit Langth Tinimus Sreat 1	. 15-LLG Yares		LS veres	15 fames	15 Terms
	Minimum Four			•		
	TERITOR SHEETINGS V	1	12.0			*
	Platman Clampation 1)	12.3			
	TRIBE WILLIAMS TO	€.	1.0			
Processes	Tenimes Air Permeseili Singaine ?	ty				
	Eleacating ?					
	Harcarteing ? Oyotng ?	1	*			ė
	Princing T	,		-	-	•
	Coasing ? Fusing?	1.				
	Syes Úseš ?	_				
	Coating Used ! Infrared Peffect !	Fean				
	Seer Fest 1	4				
	Actor Possilant ? Mydroutatic Resist ?					
	Stiffness !					
	Coating Adhesian ? Coating Distribution ?	. 1	•			
	Blacking ?					
	Color Miching ? Lantin Sulanur?		· t	ŧ	£	1
	Seatstant to Insect				•	
	Repol ? Lastage ?					
	Seray facing ? Colorfoctors ?					
	Colorfactores 1	_		1		ı
	M feet ! Tiem Assistance !	1	1	c c		
	Regin Fintum ? Ballistic Registance ?	*				
•	AMETSEASTS !					
	Flame Resistance ?				•	
	Sursole frees					
	Beite getitene					
	Sell Telesse Treethant					
	100000					
FIBERS	Types of Fibers	tylen	Catton	Tyles	17100	Tyles
	S in ram S clerence	100.0	100.0	100.0	109.3	100.0
	Stable Langes					
١	Jenser Tenecity			200/70	79/70	870/108
ł	Cress-igetten					
1	Lustor					
}	Type well State well					
1	Treatments					
1	Type Areste Carbonization Tong,					
	freetments					
-1415	Catter Count 4	40 Can.	10/1-22/1			
1	21y 4		Singles			
1			•			
1	"yee farm y		Span fan	e. Filamore Cone.	Filament Cont.	TIT MANNE
1	Cardod or Castodo is		Comes			
1	,					
SAL GROWLINE		Contracts Cannacts Procession	Sale Meaner Meanwar	_Inteq8	n 10gg	.*Atags

	•		415-0-439	38 411-6-433	S8 HIL-C-43358	416-0-43247 (1444-1	4(L-2-4)247 	4(L-0-4) 27455
CARRIC	Generic Frame		Lines Look	Tricas		"ubular	Tubular	"ubul ir
	dates, (non Coursas, (non		eare 23	4479		Tirousen 30	lircular 13	licculer 15
	Filling Ends/Inch		38	47		25	40	23
	menght-Min, Oz./Sa. 1 Max. Už./Su. 1		6. 5 7.2	5 5.3		5.5 7.5	:0 11	10 11.5
	eldth	٠,	60*	7.3				
	Minimum Roll Length		50 Tares	40 Teres		20 Femilia	20 Tards	29 Tar 25
	Hinimum Bream	4						
	Hinima fear	• '						
		•				_	_	
	Maxima Shrinkaga	4	2.\$ 2.\$	1.0 4.3		Z 1	2 3	1
	Maximum Elonquition	4	1.0	1.0		2	2	:
	Maximum mon-Fibrous M	£	1.0	1 0 2.0		3	3	:
	Maximus Air Jermeabil			2.0				
?rocesses:	Singeing 1	•						
•	3leaching ? Mercentzing ?							
	Dyeing 1						ŧ	,
	Printing ?							
	Coating ? Fusing?							
	Tyes Used ?					Actus	4c1d1	Acta:
	Coating ised ?							
	Intrared Reflect 1							
	eater Repeilent *							
	Hydrostatic Resist ? Stiffnese 1							
	Costing Adhesion '							
•	Coating Distribution	,						
	3'uching ' Culor Matering 1		ı			x	ı	
	.soile Sulpnur!		•	•		•	•	
	Pesistant to Insect							
	leoel 1 Leakage 1							-
	Saray Painting						_	
	Colorfastness ?			I I		. X	1	
	. 4:11mm Resistance ?		_	-		-		
	Pegin Firism ? Ssifistic Resistance							
	intistatio 1	1						
	reat Resistance ?							
	Carsole Press							
	Cherry Resistant							
	Tress Pesistant Toll Peless Treatmen		4					
	Antistatic Finish	•						
	140000							
F13E45	Tipes of Fibers		Polyester	Tylon	Triscetate	Tyton	Tylon	4y1;
	% n farm		130.0	50.0	50 J	130.3	100.0	100
	\$ "1 i er trok)an ter			•5	<u> </u>			
	Tenachty		legul ar	2equi er				
	Cross-inction			•				
	ree wal		Seet-duil 1	Seet-Jul 1				
	aride wool							
	"restments "ros Arweig							
	arboniation (em).			•				
	"reatments							
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	31, a							
	Type Tien 4	***.		-	dult (fillament			÷
	_		Fill promit	- •				
	curred in people a							
	7							
INTENDED USE			******					
11;	•		unmen's	.hirting	Chiesting		Cats	Cap Lines
/QL∪ * €								
****			409,465	175,107			119.586	

			411-4-1993	<u> </u>	911-0-41821	*(L-C-40004	411-C-40006
31001	Sampric Years		410	Jersey	Jeecnel	Simples) imples
	40000 4010s/Leco		26		:9	(AIETOS	4A1EEma 66
	Courses/ Inca		26		29 10.5	42	40 7.5
	antene atte. Oz./5	4. 78. iq. 78.	5.5	2.2 2.5			
	distrib		40° 50 Teres			16° 15 førds	16" 35 fares
	Tintes iros	,	20 10.03	•		72 19-42	35 1045
:	Tintage feet	- Į					
	Hasiman Shrinkage	, ,	. 1		1.5		
	Saarman Elongatto	#	•		1.3		
	•		i		1.3 1.3		
	Maximum April Person	we wee.	-				
********	Singuing?					_	
	Fleaching ? ************************************		•			1	
	Dyating ? Printing ?		2				1
	Casting † Fusings						
	Fusing? Oyos Usad ?						
	Coating uses ?			lych leraprana			
	Infrared Aeflect	7	. 1	. 2			
	dator topoliont ?		-	1			
	Hydrostatic lesis Stiffness ?			1			
	Coating Adhestes Coating Distribut			i			
	Slocking ?	en r		ī			
	Cotor Merching ? LABITE Science?			ŧ	1		ŧ
	Bosistant to Inser	t t					
•	Page 1 1						
	Seray facing ? Calertestness ?		_	1	,	_	_
	me Tonk ?	·	1	2 2	1 1	4	I I
	Milde Resistance Resin Finish ?	7					
	Jailistic Resistan	te f	•				•
	Antistatic !						
	Flame Registance ! Surmale Props						
	Beite feitent						
	Sell lelease freet	met					
	Antistatic Finish						
FIBERS	"year of fibers				2.		
	1 10 1000	-	Pelyeetar 100.0	Tylen 198.8	Nyten 100.0	Cotton 100.0	Catton 100.0
	% Tolorance Stable Langth						
	Jenier		190				
	Temasity Cress-Session		topoler			:	
	Laster "/80 mol		Sant-dell				
	GC 850 140						•
	Treatments Type Armena						
	Cardonization Tone	•					
14005	Cotton Count						
orien S	Ply	į				Hantes	*Inches
	•	•				Singles Singles	Singles Singles
	Type Yern	;	Testured	*10	1711 must	Soun Soun	Spun Spun
	Carded or Cambed	¥				Camboo	Compet
					-		Combad
TALE GROWING	•		demon's Uniforms	Protestion Closhing	Trant Stiffener	lleves Scarves	Sleves Scarvas
			-	10.7	Tele Case	• • • • • • • • • • • • • • • • • • • •	*16.

			4110-	<u> </u>	590 <u>-11-2-1</u> 1	<u> </u>
MARIC	interic temp		P110	2110	Pile	
	40000		VZ . VI		•	
	Asias/Inca Courses/Inca			-	•	
	detent-Him. ()g.,	/Sq. 16.	20	27	35.3	.4
	Alden Ale. Oc./	/Sq. 16.			•	.6
	Matema fell Las	neth			37 4 - 27 E	98 Tards
	Minimus Bress					
	Tinima fear	7				
		;				
	Marines Stringer					
	THE PROPERTY COMPANY	<u>.</u>				
		•				
	Marinus ten-Fibr	'm '46.				
***********	Maximum Air Park Singaing 7	ment lity				
	Sleaching !					
	forcertsing !					,
	Dyeing ! Princing !					
	Coating !					•
	fusingl	,			•	
	Oyes Uses ?					
	Coating Used ? Infrared Reflect	. 1				
	Ger fest ?	_				•
	dater Repoilant Hydrostatic Resi	? •• 1			1	
	Stiffness ?	** '				
	Castine Adhesine	1	`	-	-	
	Coating Distribu	tion ?				
	Caler Tetchine ?	•	i	i	i	ŧ
	Labile Sulement Resistant to Insi	***				
	Remail ?	. .				
	Leanage ? Soray Resing ?	• .				
	Caloristness !		. 1		_	
	30 THE ?			•	1	•
	Milde Speistant	• 1				
	Ballistie foatst	ance ?				•
	AMETSEASTS ?					
	HOGE Resistance !	',				•
	Jurable Procs	•				
	SHALL AND LEWIS					
	Greese Tesistant Sail Telease Gree					•
	Intistatic Flares					
	100000					
<u> 713885</u>	"year of fibers					
حدد			-EFFI IC	Acrylanitrile Caselymer	*esseryi ic	Tylen
	1 in farm 1 felerance		:00	100	108	:00
	Stable Langer				4 1/2"	
	Jen1er		6 ar 7	•	1 14	
	Cross-Section					
	Luster					Same-en E
	"/90 4001 ir 800 400;					
	Treatments					
	Transaction				•	•
	Carbonization for	•.				
-44	Sitten Sount	4				
	21,	<u> </u>				
	·-	;				
	1/00 Term	!	Sauri Sauri	Saun Jaun	Saura Saura	"moff1ament
	Cartos or Carmos		Saun	Jour	Sauce	
		i				
TTT TOED USE			40:			•
			211gme Claening	Filant Clathing	arefe Heening	secting .
			-10100	-10100		

	٠		M1L-C-29365	MEL -C-29365	MIL-C-43836A Type 1/Class L	MEL-C-43836A Type 1/Class 2	HIL-C-43836A Type 11	MIL-C-43836A Type II
FARRIC	Generic Name		Non-Weven		ten-Hoven Bonded	non-lieven	Mon-Moven Sonded	Non-Hoven
٠.	Heave							
	Warp Ends/Inch Filling Ends/Inch							
	Watent-Min. 02./5		1.7					
	-Max. 02./S		2.2					
	Width		35*					
	Hinimum Holl Lang Hinimum Break	ich	3.0					
	U.U. HARM DLESS	7	3.0					
	Minimum Tear	¥				•		
	Maximum Shrinkage		1.0			•		
		F						•
	Maximum Elongatio	n V					•	
	Maximum Non-Fibro	us Mat.		•	•			
	Maximum Air Perma	ability						
Processes:	Singering ? Bleaching ?							
	Mercerizing ?						•	
	Dyeing ?							
	Printing?							
	Coating ? Fusing ?		1					
	Oyes Used ?		-					
	Coating Used ?	•			`			
	Infrared Reflect	7						
	Odor Test ? Water Repellent ?							•
	Hydrostatic Resis							
	Stiffness ?							
	Coating Adhesion				4			
	Coating Distribut	ion ?						
•	Blocking ? Color Matching ?							
	Labile Sulphur?							
	Resistant to Insu Ropel ?	Ki						
	Leakage ?							
	Spray Rating ? .						•	
	Colorfastness ?		1					
	Hilder Resistance	. 1						
	Resin Finish ?							
•	Ballistic Resista	ace ?					•	
	Antistatic ? Heat Resistance ?							
•	Flame Resistance	,						
	Durable Press							•
	Shrink Resistant							
	Crease Resistant Soil Release Trea		•					
	Antistatic Finish					•		
	Happed							
FIBERS	Types of Fibers		Polyester	Hylen	Polyester	Polester	Hylon	Payon
	% in Yarn		50.0	50.0	100.0	100.0	80.0	20.0
	Staple Length			····· * ···	Cool law	ws Filament		
	Denter				Come mass			
	Tenacity							
	Cross-Section							
	Luster Type Wool							
	Grade Mool							
	Trestments							
	Type Aramid Carbonization Tent	_						
	Treatments							
748w5	Catter Count							
YARNS	Cotton Count	¥ F						
	Ply	¥						
	Type tarn	F						
		ř		•			•	
	Carded or Commed							
intrusca		•	1-41		***	*****		
INTENDED USE	•		intertining		inter ! in ing	interlining	incerining	Interlining

281 1,427 1,480 228 848 623 230 847 840 230 844 776 230 847 840 230 840 1,480 230 841 776 230 782 31,488 202 348,308 344,776 240 328 250 348,308 344,776 260 48,855 48,328 260 48,328 100,648 260 48,328 100,648 260 48,328 100,648 260 863 868 260 863 868 260 863 868 260 863 868 260 863 868 260 864 101,618,843				KUNT SALMON	SALMON ASSOCIATES		DATE 01/13/83	2 PAGE	-
1,072	SPECIFICA-						ì	ĺ	
1,073 780 1,070 1,281 1,427 1,469 1,461 11,084 822 601 928 845 523 810 24,174 14,189 22,808 27,878 30,723 31,488 31,488 3,882,038 3,724,489 3,046,877 4,710,107 4,864,487 4,944,778 4,847,778 4,847,778 3,882,038 3,724,489 3,046,877 4,710,107 4,864,487 4,944,778 4,847,771 4,021,823 2,124,489 3,046,877 4,280,487 1,220,121 1,210,182 4,041,823 2,124,489 3,124,877 4,124,187 1,220,121 1,210,182 4,041,823 2,104,023 2,442,704 2,720,181 2,720,211 2,144,404 3,776,182 2,887,842 4,421,728 1,220,181 2,720,181 2,720,181 3,785,182 2,887,842 4,421,728 1,01,184 2,121,180 2,121,180 7,883 2,887,842 4,421,728 2,481 10,1842 1,018,412 1,018,412 3,881,887 2,881,887 1,018,812 1,018,812 1,018,812 1,018,812 3,821,880 2,128,870 2,131,449 3,842,779 1,018,812 1,018,812 1,018,818 3,821,880 2,128,870 2,128,870 2,128,870 2,128,870 2,128,888 3,821,880 2,128,870 2,128	TON MEMBER	SCENARIO A	•	N+12	M+10	M+24	M+30		
11,084 822 488 820 810 822 810 822 820 822 8	C-F-208	1,073	780	1,070	1,201	1.427	1.4	9	:
3,4174 19,189 22,809 27,878 30,783 31,488 31,320,721 1,214,182 31,230,721 1,214,182 31,230,721 1,214,182 31,230,721 1,214,182 31,488	G-T-301	11,064	622	100	928	878	0	23	
3,882,038 3,784,488 3,048,837 4,710,107 4,884,482 4,844,776 4,827,471 1,222,232 3,784,482 3,887,884 3,784,482 3,887,884 3,887,	CC-C-487	703	312	450	8 30	647	Ď	9	- 1
3.04, 546 164, 603 200, 604 1827 4,710,107 4,864,462 4,044,776 4,927,471	11-2-222	24,174	10, 150	22,606	27,678	30,783	31.4	10	_1
1,021,650 164,003 280,660 328,602 346,306 347,610 344,116 1,021,650 2,126,954 1,021,278 1,260,854 1,324,927 1,320,721 1,314,162 2,388,613 1,480,711 2,088,207 2,482,704 2,720,181 2,720,221 1,314,162 38,046 28,727 42,209 48,655 46,229 46,404 38,727 42,209 48,655 46,329 46,329 46,404 39,728,132 2,887,842 4,412,728 8,117,248 8,321,639 6,34,444 6,38,59 72,870 86,530 76,244 82,681 100,884 102,416 102,608 72,870 86,530 76,244 82,681 100,884 102,416 1028,682 2,821,650 2,126,970 2,126,970 2,126,970 2,126,970 2,126,970 2,821,650 2,126,970 2,126,970 2,126,970 2,126,970 2,126,970 2,821,650 2,126,970 2,126,970 2,126,970 2,126,970 2,126,970 2,821,650 2,126,970 2,126,970 2,126,970 2,126,970 2,821,650 2,126,970 2,126,970 2,126,970 2,126,970 3,842,270 3,842,270 3,842,270 3,785,880 3,842,270 3,842,270 3,785,880 3,842,270 3,842,270 3,785,880 3,842,270 3,785,880 3,842,270 3,842,270 3,785,880 3,842,270 3,842,270 3,785,880 3,842,270 3,842,270 3,785,880 3,842,270 3,842,270 3,785,880 3,842,270 3,842,270 3,785,880 3,842,270 3,842,270 3,785,880 3,842,270 3,842,270 3,785,880 3,842,270 3,842,270 3,785,880 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270 3,842,270	010-0-000	3,662,038	2,714,410	3,045,837	4,710,107	4,964,482	4.044.7		
1,021,823 739,484 1,081,279 1,380,884 1,324,927 1,320,721 1,314,182 1,288,813 1,480,711 2,084,207 2,482,704 2,730,181 2,782,881 2,730,181 2,782,881 2,730,181 2,782,881 2,730,181 2,782,881 2,730,181 2,782,881 2,730,181 2,782,881 2,730,181 2,782,881 2,730,181 2,782,881 2,730,18	CCC-C-438	264,566	184,003	280, 580	328, 502	348,308	347,6		1
3,280,613 1,280,684 1,324,827 1,320,721 1,314,182 3,280,613 1,480,711 2,080,207 2,482,704 2,730,181 2,782,881 2,787,819 30,048 25,904 35,727 42,209 48,885 48,328 48,404 3,770,132 2,887,842 4,412,726 8,117,249 8,231,636 8,217,260 8,214,480 706,840 335,027 474,027 868,214 8,231,636 8,217,260 8,214,480 706,840 335,027 474,027 868,214 823,389 831,484 838,480 831,484 809 72,870 86,830 735,623 735,439 10,019,843 10,019,843 10,019,843 10,048 8,892 72,870 86,830 735,434 82,881 100,884 102,416 102,608 869 788,861 828,861 82,881 100,884 10,019,843 1,019,843 1,019,843 1,019,843 1,019,843 1,019,843 1,019,843 1,019,843 1,019,843 1,019,843	CCC-C-428	528	21	6	36	8		9	=
36,046 38,727 42,209 48,685 46,229 48,400 3,770,132 2,087,842 4,412,726 8,117,248 8,331,836 6,217,280 8,274,480 708,840 338,022 474,082 869,214 823,899 8,31,484 639,588 7,883 6,739 8,827 8,841 82,891 19,178 10,048 688 72,870 86,830 76,244 82,891 100,984 102,416 102,608 789,661 826,165 738,823 889,487 87,228 1,018,843 1,028,082 2,821,680 2,128,976 3,131,448 3,842,778 3,783,640 3,788,888	CCC-C-430	1,021,123	736,484	1,081,278	1,260,884	1,324,927	1,320,7		1
36,046 28,604 38,727 42,206 48,685 46,328 46,404 2,776,132 2,887,642 4,412,726 8,117,246 8,331,636 6,217,260 8,274,480 705,840 338,022 474,082 869,214 623,386 634,484 639,588 7,862 8,709 8,827 6,981 19,179 10,049 8,882 72,870 86,830 76,244 62,801 100,884 102,418 102,808 72,870 86,830 735,823 888,487 887,228 1,018,643 1,028,082 2,821,580 2,128,878 3,131,446 3,842,278 3,807,447 3,783,840 3,788,888	00-0-000	2,290,613	1,480,711	2,058,207	2,482,704	2,730,181	2,703,90		.1
3,776,132 2,887,842 4,412,726 8,117,248 8,331,636 8,287,260 8,214,464 82,314,464 832,464 632,46	CCCC-432	36,048	25,604	35,727	42,208	48,655	40,3		1
705,840 335,022 474,082 569,214 623,386 624,484 639,588 7,583 5,789 6,627 0,851 10,176 10,048 8,852 72,870 56,530 76,244 92,681 100,064 102,416 102,608 789,661 526,165 735,623 886,487 987,228 1,018,543 1,028,082 2,821,580 2,126,870 3,131,449 3,642,278 3,807,447 3,783,840 3,758,888	CCC-C-430	3,776,132	2,967,942	4, 412, 725	8.117.248	8,331,636	6,287,20	0	
7.802 621 308 8.627 0.051 19,176 10,049 0.052 658 72,20 102,000 102,416 102,608 1,019,643 1,025,002 2,126,070 3,131,449 3,642,270 2,007,447 3,753,640 3,759,659	8cp-5-555	705, 540	338,022	474,082	569,214	623,396	934, 41	*	1
621 398 544 628 663 666 656 72,870 66,530 76,244 92,661 100,664 102,416 102,608 789,661 656,165 735,623 888,487 887,229 1,018,643 1,026,082 2,621,580 2,126,976 3,131,449 3,642,276 3,807,447 3,753,640 3,758,858	077-2-22	7,509	6,729	0.627	188'6	10, 178	10,04		
72,870 56,530 76,244 92,851 100,884 102,416 102,808 788,661 526,165 735,623 688,487 887,228 1,018,543 1,025,082 2,521,580 2,128,978 3,131,448 3,642,278 3,807,447 3,783,840 3,758,888	111-3-33	120	398	244	020	663	8		
789, G61 526, 165 735, G23 688, 487 887, 229 1, 018, 543 1, 025, 052 2, 521, 550 2, 126, 376 3, 131, 449 8, 642, 279 3, 807, 447 3, 783, 840 3, 758, 858	077-3-33G	72,870	66,530	78,244	13,661	100,884	102,4		ť
2,821,680 2,126,976 3,131,449 3,642,278 3,807,447 3,783,640 3,758,888	CC-C-481	789,661	626, 166	738,623	100,407	987,229	1,018,64		
	200-0-487	2, 821, 680	2,126,976	3, 131, 449	3,642,278	3,807,447	3,783,64		2

2 ;	M + 38	3,000	98,855,499	5,448,840	48,850,201	18,809		20, 118	17, 188	272,697	503	1, 112, 674	1,636,938	318, 451	107	3,020	275,280	442,289	
01/13/83 PAGE	M+30	2,671	98,946,391	5,421,889	40,858,988	18,893		20,208	16, 982	273,810	810	1, 132, 834	1,659,948	316, 133	108	2,824	275,812	443, 143	
DATE	M+24	2,980	98,533,889	6,352,148	48,830,438	19,873		20, 191	10, 570	273,302	522	1, 125, 325	1,697,708	308,401	108	2,817	273, 473	439,386	
SALMON ASSOCIATES SCENARIO B	H+18	2,843	92,434,941	4,922,73	44,278,090	17,828		19,071	14,830	267,735	512	1,088,154	1,880,818	277,301	104	2,587	254,652	409,144	
KURT SALMON	X+12	2,481	78,001,018	4, 108,000	37,831,284	15,211		18,230	12,483	218,788	743	922, 820	1,438,701	225, 488	00	2,234	215,209	345,773	
	8 +9	1,645	54,801,012	2,870,248	26, 178, 353	10, 533		11,228	8,925	151, 580	210	676,038	938,644	181,802	62	1,83	181,813	243, 433	
	SCENARIO A	1, 928	65, 835, 778	2,985,406	31,468,828	12,027		15, 282	10, 482	382,020	1, 234	1,044,414	1,355,787	252,274		1,834	152,283	244,638	
	SPECIFICA- TION NUMBER	CCC-C-476	CDD-L-20	DDD-T-88	JU-N-153	KK-L-2004	KK-L-254	KK-L-271	KSA-B-1000	KSA-C-1000	KSA-C-1100	KSA-C-1209	KSA-C-2000	KSA-C-3090	KSA-C-4000	KSA-C-8000	KSA-C-8000	KSA-C-8000	

			KURT SALHON ASSUCIATES	ASSOCIATES	ď	3CA9 C3/C1/10 3TAG	2
SPECIFICA- TION MUSER	SCENARIO A	E + H	SCENAN N+12	HO B	N+24	M+30	N+36
K\$A-K-1000	8, 407, 849	7,115,044	10, 269, 670	12,036,488	12,748,042	12,762,694	12,705,863
K\$A-K-2000	620,221	611,272	781, 160	683,633	636,386	935,611	109,400
KSA-K-3000	1,666,959	1, 383, 608	1,983,731	2,240,887	2,425,269	3,428,081	2,417,211
K\$A-K-4000	64,671	47,372	68,374	80, 138	84,878	64,977	162,11
K\$A-K-6000	200	122	100	711	780	908	808
K\$A-K-8600	18,021	11,044	17,164	20,188	21,272	81,210	20,983
K\$A-K-7000	656,304	367,383	621,507	602,173	627,550	623, 842	410,014
KSA-K-B000	11, 374	6,173	11,796	13,626	14,044	14,681	14,595
KSA-K-800	1, 440	1,061	1,545	1,786	1,844	1,021	1.702
KSA-N-1000	4,242	3,377	4,718	B, 672	6.270	0.418	6, 504
KSA-NV-100	23,470	61,777	70,683	81,870	86,218	90, 90	85,278
K\$A-PC-100	28,466	20,776	31,853	38, 806	37,663	36,720	36,200
KSA-R-1000	000 9						
K\$A-T-1000	172, 664	143, 328	200,486	236,564	280,381	267,425	378,047
KSA-T-2000	\$57,001	380,088	631, 121	638,634	708, 180	722, 913	732,486
KSA-T-3000	**************************************	11,640	112,711	20,463	20,650	20,408	20,117
KSA-T-4000	263, 156	191,551	293,788	339,440	346,629	338,620	333,704

+	M+36	12,673	8,769	1, 826, 613, 269	27, 666, 309	130, 134	773,847	43,672	18, 983	1,484,891	651, 188	848,498	135, 800	611,482	724,378	35,654,530	8,728,842	1,893,712	
E 01/13/83 PAGE	M+30	12,765	1,044	1, 633, 661, 107	27,632,271	130,718	781,350	43,728	17,004	1,501,489	654,076	954, 520	138, 380	620,308	225, 372	35, 845, 007	8,775,828	1,805,322	
DATE	N+24	13,056	8, 444	1,831,037,667	27,568,068	130,586	789, 476	44, 265	17,214	1, 500, 247	653, 538	860,743	137,240	634, 984	225, 192	35,831,028	9,773,035	1,811,042	
ISSOCIATES	M+18	12,789	7,639	1,727,836,732	25, 906, 356	123,280	763, 136	42,763	16, 626	1,410,038	617,275	922,578	131,787	621,983	212,708	34,214,911	9,242,468	1,815,908	
KURT SALMON ASSOCIATES	M+12	11,069	0,351	1, 473, 364, 833,	21, 874, 023	108, 183	947,818	37,002	14,380	1,208,181	626, 306	708,401	114,070	838,339	181,367	29,419,598	7,892,789	1,653,283	
	0 +1	7,217	4, 648	1,022,265,141	18, 158, 808	72,874	442,804	24,447	1.607	134,257	363,420	844,654	77,808	350, 999	125, 231	20, 242, 260	5,458,502	1,084,839	
أنسونوسات فتبرح كالمبراة فالمساولان فيفرونوانه م	SCENARIO A	30,840	6,332	1,514,817,600	15, 143, 228	60, 163	556,520	26, 136	10,164	671,173	474,853	698, 124	99,732	40:,216	170,115	14,628,788	7,209,298	1, 164, 196	
	SPECIFICA- TION NUMBER	KSA-W- (000	K\$A-WP-100	KSA-Y-1000	KSA-Y-2000	KSA-Y-3000	L-S-125	LPP-DES12-80	LPP-DES13-10	LPP-DES18-73	LPP-0ES23-73	LPP-DES32-76	LPP-DES8-78	MIL-8-1667	MIL-8-17757	MIL-B-371	WIL-B-41826	M1L-8-593	

PAGE	3	121 967	56. 485	1.878.880	0.248.883	17.067	2,859,320	1, 265, 843	1.269.979	4.488.371	2.018.472	88. B02	1,353,659	427,479	99.940	1.034.742	1,817,110	B. 42 7
DATE 01/13/83	İ	122,312	59, 426	1.631,678	6,280,324	17,011	2,872,240	1,261,808	1,388,424	4, 498, 888	2,032,782	801,105	1,324,216	. 427,284	91,245	1,028,628	1,837,847	6,201
٥	M+24	121, 883	68,156	1, 608, 098	6,270,720	16,926	2,878,410	1,261,450	1,408,100	4,525,702	2,056,172	61,963	1,313,526	416,328	63, 403	1,007,881	1,841,714	\$ 064
ASSOCIATES	2:4	114,204	54,201	1,485,780	6, 921, 708	18,012	2, 519, 549	1, 102, 818	1,350,074	4, 348, 271	1,677,666	76,488	1,235,068	876,730	61,483	913,848	1,840,087	4,640
KUNT SALMON ASSOCIATES	M+12	97, 195	42,510	1,287,021	f, 067, 888	13,609	2,409,862	1,018,845	1, 162, 435	3,760,381	1,702,281	66,177	1,068,872	306, 928	79, 188	766, 331,	1, 587, 182	4,016
	0.4	68,010	30, 628	696, 150	3,819,379	6,397	1,854,836	705, 144	789,393	2,565,301	1, 130,688	46, 170	724,348	120, 506	61,631	177,110	1,065,351	2,788
	SCENARIO A	107, 185	47,552	1, 105, 137	4,612,326	12,488	2,288,920	958,670	1,024,198	3,068,303	230,044	11, 978	164,794	330, 338	24,030	721,706	1, 339, 726	2,580
SPECIFICA-	TION AUMBER	MIL-8-81813	MIL-8-870:8	MIL-C-10178	MIL-C-10288	M11-C-10789	MIL-C-10156	MIL-C-11065	MIL-C-12095	WIL-C-12180	NTL-C-12368	NJL-C-15062	MIL-C-15085	MIL-C-18290	M1L-C-16376	MIL-C-17155	MIL-C-17157	MIL-G-1734

SCEMANTO A No. 2 SCEMANTO B No. 20 No.				KURT SALMON	ASSOCIATES	3	DATE 01/13/83 PA	PAGE
100, 1851 147, 272 210, 1854 280, 203 255, 216 255, 21	SPECIFICA- TON MUNBER	SCENARIO A	N.O	SCENAR	HO B	M+24		M+36
10 1, 10	111-6-18387	180,651	147,273	210,854	250, 203	258,443	255,218	281,249
19 2,881 1,807 2,827 3,215 3,215 3,873 3,853 10 4,863 27,014 1,100,181 1,187,054 1,215,298 1,22 10 21,862 22,014 1,100,181 27,889 27,889 27,751 2 13 4,880,389 4,216,884 0,430 12,020 12,018 1,190,88 1,191 1 13 4,880,389 1,216,889 302,110 328,883 2,183,882 2,284	IIL-C-19002	929	709	824	298	1,005	1,011	686
883,300 870,007 827,014 1,100,181 1,187,084 1,219,288 1,219,288 1,219,288 1,219,288 1,219,288 1,219,288 1,219,288 1,219,288 1,219,288 1,219,288 1,219,288 1,219,288 1,219,288 1,219,288 1,219,288 1,219,288 1,219,288 1,219,288 2,219,288 2,219,288 1,219,288 2,21	III-G-1989	2,881	1,907	2,827	3,216	3,573	2,653	3,656
21,882 15,805 22,081 26,809 27,889 27,781 4,880,389 4,316,884 C,270,458 7,316,838 7,882,428 7,882,428 7,882,428 7,882,428 8,1018 284,737 176,842 250,888 302,110 328,853 334,288 3 1,867,321 1,180,808 1,872,080 1,872,080 1,856,383 2,133,808 2,183,882 2,123 38,040 31,183 48,274 83,208 86,223 86,132 86,132 902,878 8,748 8,448 8,866,873 1,086,809 1,078,888 1,0 7,878 8,748 8,448 8,866,873 1,086,809 10,473 816,731 816,731 816,731 816,733 10,085,009 10,473 816,731 816,731 816,731 816,731 816,731 816,731 816,731 816,731 816,731 816,731 816,731 816,731 816,731 816,731 816,731 816,731 816,731 816,731 816,731 816,732 816,	MIL-C-10750	983,300	670,007	927,014	1, 100, 181	1, 197,054	1,215,298	1, 220, 476
4 8,684 4,316,684 C,270,456 7,216,589 7,882,429 7,886,875 8,106 82 284,737 178,842 250,889 302,110 328,883 334,286 3 81 1,887,327 1,180,808 1,489,080 1,489,080 2,183,882 2,22 26 328 1,204 1,005 1,011 2,22 2,183,882 2,22 26 328 48,274 83,200 1,005 1,011 1,011 27 500,879 874,128 781,804 850,873 1,055,809 1,072,855 1,0 27 500,879 874,68 850,873 1,055,809 1,072,855 1,0 27 7,876 8,737 8,446 8,86,873 10,820 10,473 47 885,914 806,834 806,835 346,835 348,336 358,819 3 88 31,843 26,835 326,239 346,835 346,836 10,473 88 31,843 3	MIL-C-20686	21,662	18, 805	23,081	26,809	27, 958	27,751	27,438
64 8,564 6,500 10,430 12,080 12,080 12,002 12,018 334,288 3 21 1,867,321 1,180,608 1,678,080 1,678,080 1,608 2,133,608 2,183,682 2,23 23 32,040 31,183 48,274 83,206 86,132 86,132 27 902,878 874,128 781,864 850,873 1,055,909 1,078,858 1,0 27 902,878 874,128 781,864 850,873 1,055,909 1,078,858 1,0 27 902,878 87,131 916,733 1,0 850,131 916,733 27 902,279 182,212 270,786 800,639 320,039 348,350 358,610 3 88 31,843 320,039 344,436 44,436 48,815 48,816 3 88 31,843 320,039 344,436 44,436 48,815 48,816 3 88 31,845 320,039 344,436 <t< td=""><td>W11-C-21113</td><td>4,690,389</td><td>4,316,894</td><td>6,270,458</td><td>7,310,958</td><td>7, 883, 428</td><td>7,898,978</td><td>101,101</td></t<>	W11-C-21113	4,690,389	4,316,894	6,270,458	7,310,958	7, 883, 428	7,898,978	101,101
£1 1,867,327 170,843 250,889 302,110 329,883 2,133,609 2,163,862 2,246 26 824 954 952 1,005 1,011 1,011 16 38,040 31,163 46,274 83,206 76,223 86,132 85,132 85,132 27 906,870 874,128 781,804 850,873 1,055,809 1,078,858 1,080,67 27 805,671 470,840 856,873 1,055,809 10,473 10,473 47 805,671 806,873 1,055,809 10,473 10,473 10,473 47 805,671 806,873 1,055,809 10,473 10,473 10,473 83 230,279 182,212 276,789 320,039 346,515 817,131 816,731 817,131 86 31,843 44,438 44,438 44,438 48,816 81,010 80 80 80 80 80 80 80 80	MIL-C-2184	9.564	008 '8	10, 430	12,050	12,302	12,018	11,647
£1 1,867,321 1,180,608 1,679,080 1,686,383 2,133,608 2,183,822 2,246, 26 \$28 \$24 \$62 \$1,011	MIL-C-21882	264,737	170, 543	350,889	302, 110	328,663	334,268	338, 146
25 326 624 654 654 656 1,005 1,011 16 38,040 31,163 48,274 83,206 86,223 86,132 85, 27 908,676 874,128 781,504 950,873 1,055,809 1,078,855 10,090, 37 7,876 8,737 8,446 8,858 10,620 10,473 10, 47 885,011 470,840 885,934 806,862 887,131 816,731 817, 83 230,278 182,212 278,789 320,039 346,350 356,819 374, 86 31,843 28,683 38,408 44,438 46,815 48,626 51, 801,838 470,810 878,489 788,581 874,438 46,815 872,180 800,000	MIL-C-21881	1,667,321	1, 180, 608	1,679,080	1,656,353	2, 133, 609	2, 183, 882	2,246,363
18 38,040 31,163 48,274 65,203 66,132 66,132 27 \$00,876 874,128 781,604 950,873 1,055,809 1,078,855 1,078,855 1,0 37 7,876 8,737 8,446 8,866 10,620 10,473 10,473 47 685,011 470,940 888,934 806,682 887,131 910,731 9 83 230,276 182,212 276,789 320,039 348,350 358,816 3 85 31,843 28,683 38,409 44,438 48,815 40,826 9 801,836 470,810 876,489 780,891 850,874 870,180 9	IIL-C-23928	938	***	- 936	192	1,005	1,011	993
27 908,878 874,128 781,504 950,073 1,055,809 1,078,855 1,0 37 7,875 8,446 8,666,662 10,620 10,473	IIL-C-29118	38,040	31,163	45,274	63,208	60, 223	56, 132	65,719
37 7,876 B,737 8,446 8,865 10,620 10,473 47 685,934 806,662 887,131 916,731 9 83 230,276 182,212 276,759 320,039 346,350 356,819 3 85 31,843 28,683 38,409 44,438 46,818 48,818 48,818 48,826 9 801,838 470,910 878,489 788,581 860,674 870,180 9	111-0-20127	908, 878	874, 128	781,504	850,873	1,055,809	1,078,855	1,080,478
47 695,011 470,840 665,934 606,662 687,131 916,731 63 230,278 192,212 276,789 320,039 348,350 358,810 55 31,843 26,663 38,409 44,438 48,615 48,615 48,616 601,638 470,810 676,489 789,801 869,674 670,180	IL-C-29137	7,875		9,448	998,0	10, 620	10,473	10,387
63 230,278 182,212 276,789 320,039 346,350 358,816 35 36,683 38,409 44,438 48,815 48,815 48,826 601,836 470,810 676,489 780,881 880,874 879,180	IL-C-20147	695,011	470,840	655, 934	808, 862	687, 131	916,731	017,630
56 31,843 28,663 38,409 44,438 48,615 48,626 601,838 470,910 678,469 788,591 858,674 679,180	IL-C-29363	230,278	102,212	276,789	320,039	349,350	358, 819	374,222
601,838 470,810 678,469 789,881 858,874 878,180	IL-C-20366	31,843	26,663	38,409	44,438	40,615	48,626	61,846
	1L-C-297	601,138	470,910	878,489	700,501	859, 874	679, 180	168,606

			KURT SALMON ASSOCIATES	ASSOCIATES	VO	DATE 01/13/83 PAGE	7
SPECIFICA- TION NUMBER	SCENARIO A	•	SCENAL M+12	M:0 E	H+24	M+30	M+36
MIL-C-326	637,372	1,300,486	1, 910, 195	2,234,390	2,373,312	2,380,562	2,300,753
MIL-C-332	1, 129, 343	799,762	1, 158, 258	1,358,407	1,438,216	1,439,405	1,433,077
MIL-C-3388	13,551	10, 163	. 14,040	17,273	17,824	17,769	17,890
MIL-C-342	3,838,578	2,723,058	3,788,659	4,492,628	4,858,830	4,625,328	4,826,289
MIL-C-3483	87.8	878	878	67.6	878	929	870
MIL-C-368	808,468	1,789,691	2,645,870	3,062,880	3,240,341	3,267,718	1,827,120
MIL-C-3736	4, 138, 544	3, 180, 818	4,638,810	8,356,315	3,726,435	8,780,340	8,741,595
M1L-C-3738	67,206	47,210	67,873	78,628	96,837	101	91,826
MIL-C-3760	103,736	74,763	107, 944	120, 603	133,646	134,077	133,468
MIL-C-3024	2, 232, 928	1, 964, 474	2,414,031	2,818,083	2,967,068	2,860,420	2,638,220
MIL-C-3053	1,026	1,026	1,025	1,025	1,028	1,025	1,028
MIL-C-40004	28,238	17,048	24,607	28,842	30,546	30,580	30,440
MIL-C-40038	6,397	3,673	6,704	6.733	7, 104	7,068	7,011
MIL-C-41808	41, 108	30,607	45,007	62,001	63,713	63,042	62,217
MIL-C-41820	480.058	453,201	683,067	780,278	620,628	812,975	814,396
MIL-C-41831	21, 402	18,258	25,495	30,864	33, 667	34,700	35, 160
MIL-C-4277	131,238	131,230	131,230	131,239	131,239	131,230	131,239

BATE 01/13/83 PAGE 8	M+24 M+30 M+36	207,756 313,370 312,207 308,611	542,219 570,221 568,920 568,474	134 8,004.627 8,015,131 7,975,545	214,101 228,078 225,869 228,343	70,466 74,633 74,719 74,386	142,148 150,119 150,100 148,384	834,668 883,839 948,884 841,880	948,228 887,570 816,354 950,926	.880 4,021,084 4,013,804 2,880,788	2,812 2,808 2,889 2,824	233,880 247,881 247,782 248,432	228,320 241,738 241,837 240,374	30,344 32,020 31,963 31,814	604 8, 661, 922 6, 938, 100 6, 920, 758	.863 3,205,341 3,212,428 3,197,594	106 3,154,636 3,195,116 3,198,492	•
KURT SALMON ASSOCIATES	M+6 M+12 M+16	175,028 253,632 267	319,070 465,230 642	4,463,067 8,435,895 7,852,134	128,774 183,104 214	41,653 60,121 70	84,007 121,578 142	632, 620 608, 182 834	657,257 608,481 946	2,250,201 3,268,186 3,817,880	1,655 2,434 2	139,881 188,363 233	134,424 184,674 228	17,888 28,843 30	3,328,202 4,623,678 8,444,604	1,809,137 2,864,354 3,022,893	1,788,092 2,477,981 2,928,108	2 062 146
	SCENARIO A	386, 673	388,200	6,316,273	167;308	88,249	108,753	783,268	755,378	2,369,324	6, 170	175, 107	177,457	23,674	4,097,881	2, 438, 303	2,269,844	3.069 708
	SPECIFICA- TION NUMBER	MIL-C-43122	MIL-C-43128	MIL-C-43191	MIL-C-43204	MIL-C-43234	MIL-C-43247	MIL-C-43251	MIL-C-43256	MIL-C-43303	M1L-C-43352	MIL-C-43368	MIL-C-43375	HIL-C-43424	HIL-C-43488	MIL-C-43473	MIL-C-43479	MIL-C-43482

•		M+08	22,015	607,085	1, 293, 819	14,017	155,586	175,201,0	1,559,826	83,828	1,689,310	74,090	2,808,878	26,846	7,403	87,443	24,453	39,293	282,874
	YACE																		
	01/13/83	M+30	22, 333	509,848	1,410,389	120'91	1, 162, 830	6,444,591	1,588,780	85, 140	1,405,871	74,480	2, 897, 313	26, 965	7,550	87,817	24,836	39, 421	284,365
3446										, 									
		N+24	22,861	515,271	1,423,767	86,072	1, 170, 516	6,474,740	1,564,959	87, 153	1,694,940	74,617	2,889,683	27, 188	7,015	87,302	25, 143	39,487	267,372
ASSECTATES	210 B	X+18	22,393	484,310	1,370,385	13, 131	1, 124, 024	6, 176, 292	1,477,571	86,372	1,600,381	70,898	2,722,134	28,066	7,473	61,073	24, 328	37,378	276,500
KURT SALMON	SCENARIO B	N+12	19, 382	423, 594	1, 183, 244	71,948	872,843	5,239,584	1, 280, 638	73,880	1,365,428	177,08	2,324,802	22,427	6,460	67,754	21,044	31, 864	238,206
		N+8	12,637	282,211	805,722	47,538	663,578	3,618,830	673,342	48,176	945,903	41,775	1, 690, 432	18,01	4,248	47,110	14,320	21,747	159,229
		SCENARID A	17,321	402,334	2,387,175	60,820	883,480	4,735,878	1, 105, 200	63,049	1,268,682	67, 137	1,221,789	12,083	1,043	70,551	18,238	38,045	134,709
	SPECIFICA-	TION MUMBER	MIL-C-43504	MIL-C-43525	HIL-C-43594	MIL-C-43800	MIL-C-43805	HIL-C-43827	MIL-C-43837	MIL-C-43675	MIL-C-43878	MIL-C-43701	MIL-C-43718	MIL-C-43734	HIL-C-43774	MIL-C-43791	MIL-C-43824	MTL-C-43836	MIL-C-43842

PECTETCA.			SCENA	SCENARIO B			
TION NUMBER	SCENARIO A	2	N+12	M+18	M+24	M+30	M+38
HIL-C-43843	1,241,741	980,879	1,416,598	1,660,033	1,757,607	1,759,222	1,751,201
MIL-C-43847	21,218	16,707	23,230	26, 139	27,723	776,72	156'97
MIL-C-43858	1,650,263	7,324,717	10,738,420	12, 407, 183	12, 820, 458	12, 838, 776	12,755,787
MIL-C-43874	23,040	17,148	25,249	29, 172	30,122	28,738	20, 274
HIL-C-43892	1,656,573	. 6,234,787	12,072,802	13,046,720	14,525,814	14,431,752	14,340,718
MIL-C-43806	4,065,171	2, 873, 258	4, 163, 633	4,882,117	5, 160, 428	8, 147, 815	5,093,546
MIL-C-43820	616,290	431, 107	607, 520	730,015	807,335	828, 482	639,781
HIL-C-43938	337,506	246, 116	377, 478	430, 131	448,241	434,850	426,762
MIL-C-47003	789,784	696, 392	1,030,786	1,212,028	1,278,894	1,276,296	1,274,150
MIL-C-43992	3,271,563	707, 489	1,048,089	1,283,717	1,278,901	1,250,319	1,232,830
MIL-C-44031	28, 595, 592	22,581,769	32,702,863	38,354,744	40,807,911	40,641,354	40, 462, 583
MIL-C-44034	7,842	8,701	6,357	9,656	10,056	066'6	6,827
HIL-C-44043	90,684	108,670	156, 990	182, 463	180,318	188,757	187, 921
HIL-C-44050	111,117	1,050,241	1,663,647	1,816,780	1,803,823	1,077,047	1,669,884
MIL-C-483	271, 834	214,408	316, 183	364,217	376,328	371,699	365, 966
HIL-5-484	2,312,480	1,824,022	2,841,304	3,067,039	3,256,340	3,252,481	3,231,638
HIL-C-5040	4,006,762	3,780,086	4, 106, 880	4,278,664	4.335.008	4 330 700	4 320 841

			KURT SALMON ASSOCIATES	ASSOCIATES	DATE	01/13/83	PAGE 11
SPECIFICA- TION MMBER	SCENARIO A	Z.0	SCENAR M+12	H+10	N+24	M+30	M+38
MIL-C-508	1,367,203	1,080,404	1, 563, 806	1,041,360	1, 928, 034	1,820,418	1,011,363
M1L-C-51251	250, 860	193,966	279, 863	328, 164	347,672	347,077	346,432
MIL-C-6590	249,100	102,010	212, 334	326, 859	338,773	335,206	330, 180
MIL -C-7020	1,070,409	1,059,302	1,070,403	1,071,043	1,071,307	1,071,341	1,071,281
HIL-C-7040	3,621,030	3,621,030	3,621,030	3,621,030	3,821,030	3,621,030	3,621,030
MIL-C-7219	1, 181, 729	873, 526	1,256,723	1,471,300	1, 557, 488	1,659,066	1,652,363
MIL-C-7350	6,954,367	6,472,668	7,695,798	130,021	8, 437, 188	9,445,995	9,406,320
MIL-C-7815	2,728,578	2,706,729	2,737,448	2,752,465	2,757,084	2,755,331	2,765,602
MIL-C-8081	807	338	410	200	623	623	623
WIL-C-81393	930	002	1,210	1,300	1,447	1, 430	1,428
WIL-C-81814	185 423	106,283	145,754	173,601	188,408	181,271	189,792
MIL-C-82252	34,891	28,824	41,682	48, 142	62,539	83, 988	56,311
WZL-C-623	2,344,674	3,862,435	8,808,008	6,566,328	7,085,417	7, 154, 894	7,285,704
HIL-C-83242	80,878	61,818	71,060	64,633	91,852	83,248	82,528
WIL-C-83388	69,628	45,089	61,521	71,079	76,022	75,529	74,178
NIL-C-83429	987,888	814,288	1, 197, 388	1,383,438	1,428,988	1,411,145	1,389,197
MIL-C-83450	62,899	058, 26	48,559	65,452	60, 182	61,097	60,625
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			KURT SALMON	SALMON ASSOCIATES	ă	DATE 01/13/23 PAGE	12
SPECIFICA-				10 6			
TION NIMBER	SCENARIO A	Z+0	M+12	B+18	N+24	M+30	M+30
MIL-C-87052	133,444	3,145,563	4,381,231	8, 387, 899	8, 992, 277	6, 123, 189	6, 129, 258
M1L-F-21840	B, 463, 733	5,501,412	6,013,677	0,318,850	9,750,318	8,700,666	9,014,655
MIL-F-43530	157,817	118, 494	166,719	108, 280	208,841	207, 173	206,248
MIL-Q-3866	204,870	153, 972	225,731	260,610	271,696	209,638	268, 134
HIL-H-41802	278,250	880,018	1,301,168	1,508,502	1,853,346	1,626,314	1,508,384
MIL-L-11075	14,880	11, 189	18,406	18,058	19,680	10,337	19,036
MIL-L-15040	096,09	801,474	722, 330	634,683	910,910	935,662	976, 323
HIL-L-1870	37,200	27, 000	41,014	47,387	48,850	40,342	47,550
MIL-L-1708	232,427	181, 188	265,076	308,274	320,784	320,058	320,088
MIL-L-40081	47,278	34, 206	48,370	87,866	01,207	61,357	180,18
MIL-L-40088	1,800	1,633	1,320	2,001	2,770	2,742	2,730
MIL-P-15064	680,884	1,817,386	2,663,788	3,001,334	3,307,800	9,345,038	3, 421, 692
MIL-R-1670	158,000	131,655	100,001	229, 823	238,238	238,477	235,035
MIL-R-17343	1,878,000	467,384	714,633	826,672	858,720	824, 148	1946,784
HIL-R-24048	6,750,000	1,754,504	2,572,318	2,972,058	3,094,991	9,074,932	3,058,513
MIL-R-30500	4,889,083	1, 537,040	2,289,363	2,810,478	2,710,967	2,697,935	2,081,835
WIL-5-3877	316,651	281,013	431,813	498,808	808,738	488,200	481, 197

			KINT SALMO	KURT SALMON ASSOCIATES		DV-E 01/13/83	PAGE 13
SPECIFICA- TION NAMBER	SCENARIO A	8 +4	M+12	N+18	N+24	M+30	90+38
MIL-5-43355	398, 928	1,228,592	1,650,012	2, 155,004	2,219,06	2, 180, 448	2,154,806
MIL-8-43503	7,029						
MIL-8-6780	28,773	23, 304	24,06.3	30,540	41, 120	40,760	40,281
MIL-T-2283	200, 183	138,207	104, 504	212,237	225,065	229, 697	222,536
MIL-T-34646	317,620	222, 052	322,737	378, 616	400,756	401,088	310,328
MIL-T-40825	300, 144	222, 837	330,012	362,384	388, 110	204, 166	382, 813
MIL-T-43548	6,070,258,420	7,287,771,240	487,111,714	2,348,842,071	3, 140, 540, 220	2, 198, 105, 567	3, 158, 810, 266
MIL-T-43588	17,623,103	20,356,076	29,663,612	34, 672, 697	36,334,356	36,236,782	36,041,338
HIL-T-43504	255, 808, 828	66,341,387	84,878,881	818,080,818	100, 116,681	67,802,721	98,411,213
MIL-T-43624	54, 561,010	12,437,880	17,648,421	20,746,749	22, 181, 448	22,349,502	22,308,504
MIL-T-43636	30,476,623	33,628,467	40, 663, 436	57,845,530	80, 438, 338	80,938,415	69,669,610
MIL-T-43708	16,793	11,140	18, 903	10, 628	20, 184	19,910	10,054
HIL-T-43718	35,619	28,057	39,811	48,998	48,050	48,873	45,220
HIL-T-6038	6, 437, 638	4,347,288	6, 223, 866	7,271,064	7,668,200	7,694,226	7,661,038
MIL-T-6237	910'09	63, 63	90,141	108,252	119.870	122, 412	124,424
MIL-T-5861	33,050	52,848	33,058	33, 121	33,231	12,230	33,221
H1L-T-6134	47, 138	47,138	47, 136	47, 138	47, 136	47, 136	47,136
							,

PAGE 14	M+38	131, 104, 472	223	469,66	808,831	0,260,791	201	3,529,192	3,677,818	623, 456	800, 568	4,252	17,432,108	10,8%	778,401	567,569	393	941,350
DATE 01/13/83 P	M+30	132, 984, 897	227	100,302	609,487	9, 293, 996	201	3,649,201	3, 893, 297	526,690	501,621	4,252	17,551,466	10,658	783, 310	669, 250	383	846,477
70	N+24	133,914,079	228	101, 182	608,350	8,303,838	201	3,669,643	3,680,300	830,366	800,784	4,252	17,623,506	10,858	785,540	569,058	383	882,483
SALMON ASSOCIATES	#+18	128, 428, 310	213	97,144	802,274	8,835,908		3,413,084	3,381,041	808,888	472, 701	4,262	16, 803,038	10,858	748,279	848, 120	303	916,918
KURT SALMON	M+12	110,530,619	188	63,674	584,707	7,601,753	391	2,038,271	2,001,350	441,048	403,667	4,262	14, 423, 882	10,858	643,290	488,702	303	703,484
	M+6	78, 157, 621	138	Be, 397	553,348	8,310,714	201	1,995,576	1, 996, 605	300, 192	278,003	4,252	9,880,888	10,658	443,067	408, 127	393	476,728
	SCENARIO A	95,951,076	188	63,601	670,742	7,040,193	291	2,589,693	3,340,128	395, 507	380,487	4,252	12,824,245	10, 956	679,400	766, 228	383	611,340
	SPECIFICA- TION NUMBER	MIL-T-8319.	MIL-T-8383	MIL-W-17337	MIL-W-27265	H1L-W-4088	MIL-W-43566	MIL-W-43638	MIL-V-4368	M1L-W-43685	M11W-43600	MIL-W-5038	MIL-V-630	MIL-W-5625	MIL-V-5564	M11-W-5665	PPP-T-80	T-C-571

SPECIFICA-			KURT SALMON	KUNT SALMON ASSOCIATES SCENARIO B		DATE 01/13/83	PAGE 18
TION NUMBER	SCENARIO A	O+#	N+12	H+10	N+24	M+30	M+30
T-R-805	6,072	2,141	9,043	3,863	3,000	3,084	4, 168
T-R-010	3,860	(8)	229	308	330	207	910
1-1-071	1,045,644	766,239	1,106,784	1,201,665	1,359,039	1,365,638	1,348,978
1-1-881	22,643	18,546	28,231	29, 168	20,038	29,364	28,071
T-T-011	683,672	046,761	646,673	1, 103, 067	1, 150, 631	1, 158, 312	1,181,088
V-B-871	163,200	167,376	227, 164	266,256	282,003	282, 331	301,078
V-F-108	154, 200	96,088	88,340	63,847	08,282	63,774	85,466
V-1-61	1,418,410	1,063,238	1,634,668	1,789,320	1,905,090	1,606,833	1,887,487
V-T-278	1,650,646,108	1,663,502,608	2,362,762,263	2,783,152,546	2,888,487,506	3,027,063,458	3,068,668,584
V-T-260	35,861,068	36, 301, 560	62, 470, 193	61,477,407	65, 217, 632	62,384,689	65, 274, 228
V-T-285	1,203,730,782	806,554,088	1,321,087,736	1,640,349,753	1,632,250,658	1,630,606,078	1,022,001,417
V-T-205	478,804,825	398, 114, 104	667, 306, 018	602, 514, 607	701, 883, 685	703,818,804	700,827,288
V-T-301	10,048,052	36, 880, 860	63, 372, 949	61,777,087	65,336,165	886,888,888	66,892,678
V-T-315	62,366,400	40, 478, 402	56,263,331	. 66,742,096	72,499,350	73,744,473	73,687,442

			KURT SALMON ASSOCIATES	ASSOCIATES	0	DATE 01/13/83 PAGE	9
SPECIFICA- TION NUMBER	SCENARIO A	Q+X	M+12	2 C	M+24	M+30	M+36
C-F-208	1,073	088	636	673	683	887	6
C-T-301	11,064	7.1.6	410	483	622	632	557
CC-C-487	₽0₽	237	257	282	297	301	311
17-0-00	24, 174	13,624	14,076	14,624	14,576	14,474	14,682
617-0-000	3,852,038	2,098,448	2,292,381	2,506,636	2,622,566	2,858,688	2,744,058
CCC-C-428	284,588	151,710	162,818	175,670	182,762	184 083	189,328
CC-C-428	628	14	16	1	•	20	20
ccc-c-428	1,021,623	559,030	807,484	665,342	697,067	705,859	729, 525
CC-C-430	2,298,813	1,210,893	1,273,907	1,319,234	1,328,547	1,328,088	1,339,682
CCC-C-432	38,048	20,223	21,630	22,658	23,024	23, 144	25,850
CCC-C-438	3,776,132	2,139,848	2,381,758	2,678,352	2,846,235	2,898,641	3.018,028
864-0-000	432,998	281,881	281,325	298,840	304, 888	308,828	312,243
CCC-C-440	7,583	4,401	4,784	5,244	5, 525	68.83	5,792
CCC-C-441	821	327	343	347	349	343	353
877-0-000	72,870	45, 118	48,032	49,637	50,427	60,800	61,332
CCC-C-481	759,681	429,201	451,848	470,485	473,800	672,272	477,243
CCC-C-487	2,821,680	1,589,985	1,739,914	1,918,371	2,020,702	2,048,645	2, 122, 503
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			KURT SALMON	SALMON ASSOCIATES SCENARIO C	0	DATE 01/13/83 P	PAGE 17
TION NIMBER	SCENARIO A	0.2	M+12	# # F	N+24	M+30	M+30
8L9-2-222	1, 998	1, 134	1,283	1,474	1, 570	1,609	1,680
DD-120	3,788,644	2,361,812	2,667,245	2,765,767	2,674,695	2, 603, 422	2,987,921
07-1-000	67,295,019	40, 114,656	43,679,418	47,312,251	40,110,071	48,080,881	61, 121, 891
000-Y-88	2,965,406	2,231,997	2,401,881	2, 673, 446	2,943,270	2,640,188	2,717,732
JJ-V-155	31,468,629	20,028,370	21,717,859	23, 522, 105	24,473,635	24,728,449	25, 463, 661
KK-1-2004	12,627	8,078	8,750	9,470	0,840	0,948	10,238
KK-L-271	15,262	0.81	9 308	10,077	10,470	10, 582	10, 862
KSA-8-1000	10,482	988	7,513	7,046	6,055	8, 108	0.230
KSA-C-1000	135,300	75,610	80, 572	13,616	64,510	04,160	66,063
KSA-C-1100	1, 234	202	232	267	288	204	300
KSA-C-1200	1,044,414	888	582,586	680,813	592,211	501,194	608,483
KSA-C-2000	1,603,507	720,040	900, 959	919,428	110,688	1,011,264	1,059,887
KSA-C-3000	252,274	135, 499	140,008	145,510	146,029	148,014	148, 698
K\$A-C-4000	10	7	93	55	88	98	10
KSA-C-5000	1, 19	906	1, 180	1, 327	1,370	1,428	1,479
KSA-C-8000	152,263	119,023	127,629	136,638	139, 132	139,079	143,078
KSA-C-9000	244,638	101,233	204,888	217,768	223,569	224, 902	228,881

			KURT SALMON	SALMON ASSOCIATES	DATE	TE 01/13/83 PAGE	-
SPECIFICA- TION NUMBER	SCENARIO A	0 +2	M+12	10 C R+10	M+24	M+30	M+36
K\$A-K-1000	069	5,462,319	5,014,347	6,396,657	6,649,310	6,715,071	6.610.821
KSA-K-2000	620, 221	383,614	410,888	464,078	487,646	484,043	\$10,907
KSA-K-3000	1,666,859	1,039,197	1, 125, 188	1,218,837	1, 204, 998	1,277,508	1,314,685
KSA-K-4000	64,671	36,388	33,376	42,550	44,270	44, 706	46,009
KSA-K-B000	808	386	970	362	383	381	700
KSA-K-8000	16,021	9,242	9,920	10,683	11, 120	11, 108	11,814
K\$A-K-7000	956,304	268, 489	292,864	321,201	337,560	342,648	354, 942
KSA-K-8000	11,374	6,275	9,794	7,348	7,638	7,713	7,838
KSA-K-#00	1,440	797	198	980	1,001	1,013	1,048
KSA-N- 1000	4,242	2,042	2,042	9,004	3,048	990'6	9,117
KSA-NN-100	23,470	42,817	44,699	48,147	48,360	48,288	48, 862
K\$A-PC-100	25,466	14,989	18,016	10, 107	20,744	21, 131	22, 157
KSA-R-1000	090'8						
K\$A-T-1000	172,584	62,058	100,070	122,805	127, 424	131, 842	138, 704
K\$A-T-2000	587,001	267,718	320,213	338,388	343,261	346, 563	380,988
KSA-T-3000	40,344	8,328	9.272	10,666	11,834	11.750	12, 322
KSA-T-4000	263, 166	138, 138	183,810	170,028	101,334	194, 506	204, 398

SCEMMEIO A No. - VJ 7903			KURT SALMON	KURT SALMON ASSOCIATES SCENARIO C	0	DATE 01/13/83 P.	PAGE 10	
86, 132	TION NIMBER	SCENARIO A	9	M+12	81-18	N+24	M+30	M+3C
1, 114, 117, 1000 718, 729, 0200 29, 120 4, 100 14, 100 15, 119, 140 14, 110 14, 117, 110 14,	KSA-W-1000	30, 840	8,205	6,798	999'9	7,209	7,344	7,701
1, 514, 120 786, 728, 050 12, 588, 488 13, 881, 691 14, 241, 347 14, 392, 437 14, 904 15, 149, 248 14, 241, 347 14, 392, 437 14, 904 14, 14, 14, 348 14, 241, 341 14, 342, 344 14, 344, 344 14, 344, 34	KSA-WP-100	F, 332	3,680	3, 629	6,046	4, 105	4, 132	4, 107
15, 143, 226 11, 517, 219 12,589,486 13,881,631 14, 241, 347 14, 312, 337 14, 402 23, 123 66, 123 66, 124 60, 134 62, 133 66, 134 62, 133 66, 134 62, 133 66, 134 62, 133 66, 134 62, 134	KSA-Y-1000	1,514,817,600	786,739,090	\$50, \$16, 558	918,745,490	954, 109, 656	363, 119, 486	880,702,344
88, 153 56, 946 60, 879 86, 816 60, 173 427, 174 429, 134 427, 134 423, 134 284, 134	KSA-Y-2000	16, 143, 226	11,617,318	12,589,498	13,681,631	14,241,347	14,382,837	14,804,164
0 26,139 17,213 78,408 22,220 23,836 412,846 24,383 24,383 24,383 28,384 407 0 10,187 6,684 7,848 8,641 8,271 8,474 8 0 10,187 6,884 7,848 8,641 8,271 8,474 8 0 10,187 638,181 671,281 326,184 774 774,841 774,841 774,841 774,841 774,841 774,841 774,841 774,841 774,841 840,851 840,851 821,811 840 0 461,224 481,810 813,830 812,811 840 774,803 774,802 774 0 481,223 474,214 481,810 813,830 821,811 840 0 481,224 60,803 324,306 74,802 774 0 110,116,32 110,403 110,001,403 110,001,403 110,001,403 110,001,403 110,001,403 110,001,403 110,001,403 110,00	KSA-Y-3000	163	55, 843	60,576	65,516	68, 103	08,777	70,770
0 26,134 17,213 76,408 22,220 20,539 24,383 28,371 8,474 8 0 10,187 6,894 7,848 6,841 8,271 8,474 8 2 887,173 638,181 671,828 748,774 774,641 786,256 608 3 474,853 278,011 301,281 326,184 336,184 342,512 382,618 840 8 672,124 488,810 813,833 821,811 840 77 74,602 77 481,216 253,126 281,643 324,206 380,803 74,602 77 481,216 263,126 103,819 112,401 116,883 116,032,147 374 170,116 88,786 103,819 112,401 116,887,884 116,032,700 19,820 7,209,288 4,182,732 4,631,816 4,807,352 8,108,223 8,106,287 1,061,297 1,134,189 200,31 261,773 1,006,783 1,061,787	1-5-128	588, 520	338, 588	286, 174	369,095	412 844	423, 314	457,748
0 10,18* 0,094 7,843 8,841 8,271 8,474 8 2 987,173 638,181 671,629 748,774 778,641 786,259 609 3 474,653 278,011 301,281 320,184 332,184 342,812 342,812 362 8 672,124 403,887 444,214 488,810 813,833 821,811 840 8 6721 67,714 63,458 69,801 73,408 74,802 77 481,216 287,126 281,843 324,208 380,803 387,147 374 170,116 88,786 103,819 112,401 116,887,884 19,202,700 19,820 14,932,01 18,2775,509 18,665,886 18,184,432 16,184,432 1,187,889 8,187,889 8,187,889 1,18,202,700 19,820 1,016,289 8,1310 1,134,189 4,182,732 4,182,732 4,182,732 4,182,732 8,108,223 8,187,889 1,016,289 1,016,289 <t< td=""><td>LPP-DES 12-80</td><td>26, 138</td><td>17,213</td><td>19,408</td><td>22,220</td><td>23, 639</td><td>24,303</td><td>25, 488</td></t<>	LPP-DES 12-80	26, 138	17,213	19,408	22,220	23, 639	24,303	25, 488
3 474,853 278,011 301,281 748,774 776,841 786,256 809 8 474,853 278,011 301,281 328,184 332,184 342,512 342 8 658,124 403,897 444,214 488,810 813,833 821,611 840 8 732 47,714 83,459 80,801 73,405 74,502 77 481,216 263,126 281,843 324,206 380,803 387,147 374 170,116 86,786 103,819 112,401 116,886 16,806 16,806 16,184,43 18,987,884 19,202,700 19,826 7,209,286 4,182,732 4,851,816 4,807,382 8,108,229 8,106,227 1,056,287 1,056,2	LPP-DES13-80	10, 187	769,0	7,548	1,641	9,271	9,474	9,812
3 474,063 278,011 301,281 326,184 336,184 336,184 336,184 342,512 356 5 628,124 403,887 444,214 488,610 613,633 621,611 640 5 77 60,732 47,714 63,458 68,801 73,408 74,602 77 481,216 263,126 281,843 324,206 380,603 387,147 374 170,116 88,786 103,819 112,401 116,867,864 19,032,700 19,820 7,209,286 4,162,732 4,831,816 4,807,362 8,108,223 8,167,659 8,110 7,209,286 4,162,732 4,831,816 4,807,362 8,108,223 8,167,659 8,160,287 7,209,286 4,162,732 4,831,816 4,807,362 8,108,223 8,167,659 8,106,287 1,134,186 80,074 880,031 1,006,773 1,006,773 1,006,773 1,006,773 1,006,773 1,006,773 1,006,773 1,006,773 1,006,773 1,006	LPP-DE518-73	687,173	638, 181	651,620	748,774	776,841	786, 269	808, 298
86.732 47,714 43,454 488,810 \$13,833 \$21,811 \$40,214 488,810 \$13,833 \$21,812 77 481,216 267,714 63,459 89,801 73,405 74,602 74,602 77 170,116 86,786 103,819 112,401 116,886 116,032 1; 14,632,618 15,275,509 16,665,886 15,164,43 18,967,854 19,202,700 19,826 7,200,286 4,182,732 4,531,916 4,807,352 5,108,223 5,157,659 5,310 1,134,186 809,074 880,031 961,773 1,009,763 1,016,287 1,016,287 1,051	LPP-DE523-73	474,653	278,011	301,281	328, 184	336, 194	342,512	362, 547
88,732 481,216 281,843 324,206 356,603 387,147 374 170,116 88,786 103,819 112,401 116,886 11,104,43 116,032,700 19,202,700 19,820 7,209,286 4,182,732 4,801,916 4,807,352 6,108,223 6,167,659 1,006,763 1,016,287 1,016,287 1,016,287 1,016,287 1,016,287 1,016,287 1,055	LPP-DES32-78	608, 124	403,887	444,214	488,610	613,633	621,611	840, 440
481,216 283,126 281,843 324,206 350,603 367,147 374 170,116 98,786 103,819 112,401 116,888 116,032 15 14,632,618 15,275,509 16,665,886 16,164,43 18,967,854 19,202,700 18,826 7,209,288 4,162,732 4,631,916 4,807,352 8,108,223 6,167,659 8,310 1,134,180 809,074 880,031 861,773 1,006,763 1,016,287 1,066	LPP-DE58-70	. 30,733	111,77	63,459	108,89	73, 405	74,602	77,208
170,116 95,795 103,819 112,401 116,888 118,032 15,202,700 19,826 14,632,618 15,208,288 4,162,732 4,531,916 4,807,352 5,108,223 6,157,658 5,310 1,134,185 809,074 880,031 861,773 1,006,763 1,016,287 1,056	MIL-B-1607	481,210	263, 125	281,843	324,208	350, 603	. 357,147	374,541
14,032,618 15,275,509 16,665,886 18,154,43. 18,967,854 19,202,700 7,209,298 4,182,732 4,531,915 4,807,352 5,108,223 5,157,558 1,134,185 809,074 880,031 961,773 1,006,753 1,016,297	HIL-8-17757	110,116	98,796	103,819	112,401	116,086	110,032	207 . 33
7,209,288 4,182,732 4,531,815 4,807,352 5,108,223 5,157,559 1,134,185 809,074 880,031 881,773 1,008,753 1,018,297	MIL-8-375	14,632,618	15, 275, 509	10,665,838	18, 164, 43.	18,987,854	19, 202, 700	19,826,206
1,134,195 809,074 880,031 981,773 1,008,763 1,018,297	MIL-B-41828	7,209,288	4, 162, 732	4, 551, 915	4, 807, 352	5, 108, 223	6, 157, 659	6,310,623
	M1L-5-533	1, 134, 198	809,074	880,031	961,773	1,008,753	1,016,297	1,051,834

PAGE 20	· 60 + M	AR ANS	27 812	870 :00	3.393.802	0.082	1.620.429	010 213	788 230	2 847 808	834, 233	77 73	721 882	700 001	400	400 972	012	
DATE 01/13/83	M+30	63.75	27,348	837, 164	3,301,886	0, 824	1,870,845	668, 483	760, 544	2,450,448	917,664	42.738	683,345	187, 365	82. S3	482.864	1,027,350	
	H+24	62,647	27, 637	612, 102	3,272,399	8,708	1,553,240	659,756	750,000	2,422,378	803, 162	41,467	674,086	198,713	61,673	481,025	1,020,294	
ASSOCIATES	M+18	997'09	27,440	773, 144	9, 156, 403	6,373	1,447,801	634,083	712,059	2,303,732	881, 132	38,483	638,362	188,008	47,680	488,622	981,489	
KURT SALMON ASSOCIATES SCENARIO C	M+12	66,830	28,582	683,711	2, 834, 062.	7,881	1,364,888	618, 663	645,317	2,084,770	780,788	34,874	562, 173	101,038	41,457	463, 148	911,448	•
	X+0	62,706	28,561	616,753	2,717, 121	7,000	1,263,756	840,841	508,267	1, 808, 433	190'089	29, 952	487, 109	184,448	\$62,76	438,760	848,810	1.791
	SCENARIO A	107, 188	47,652	1,106,137	4, 512, 326	12,409	2, 268, 920	958, 670	1,024,198	9,071,080	B18, 121	11,076	154,704	330,338	24,639	721,706	1, 330, 726	2,580
SPECIFICA-	TION NUMBER	MIL-8-8:813	HIL-B-87019	MIL-C-10176	MIL-C-10288	MIL-C-10788	MIL-C-10859	MIL-C-11068	MIL-C-12095	NIL-C-12189	MIL-C-12363	MIL-C-15062	MIL-C-15085	MIL-C-16250	MIL-C-16375	MIL-C-17155	MIL-C-17157	MIL-C-1734

46.00			KURT SALMON /	SALMON ASSOCIATES SCENARIO C	9	DATE 01/13/83 PA	PAGE 21
TION MINBER	SCENARIO A	Z+2	M+12	M+18	M+24	M+30	M+30
MIL-C-18387	190,551	111,771	121, 604	133, 178	140,316	141,948	147, 104
MIL-C-18002	828	488	620	626	629	628	924
MIL-C-19899	2,861	1,608	1,672	1,728	1,732	1,723	1,734
M1L-C-19759	953,300	636,690	570,461	662,316	598,339	800,044	808,408
MIL-C-20898	21,662	12,048	13,076	14,260	14,850	15, 115	18,624
WIL-C-21115	4,690,369	2,998,574	3,410,085	3,761,284	3,863,832	4,048,810	4,187,344
MIL-C-2184	9,634	7,804	8, 460	6,281	6,783	0,910	7,256
HIL-C-21862	264,737	140,318	149, 569	153, 998	162,680	163,236	166, 297
MIL-C-21881	1,667,321	823,760	935,247	1,020,427	1,048,608	1,074,438	1, 104, 675
HIL-C-23926	828	108	620	826	529	228	¥23
NIL-C-28118	38,040	24,058	26,968	28, 187	20,392	20,663	30,843
HIL-G-29127	808,878	486,782	806, 318	622, 451	826,314	623,633	627,675
HIL-G-20137	7.976	4.387	4.784	6,249	8, 519	. 6.677	8,763
HIL-C-20147	698,011	394, 164	410,084	423,304	424,796	421,843	424,407
MIL-C-29363	230,278	123,904	146, 522	100,501	170,012	178,886	183,208
MIL-C-29368	31,843	17,245	20,366	22, 650	23,730	24,651	28, 423
MIL-C-297	601,838	322,255	369,400	408,808	423,339	434, 512	448,311
	,						

	M+30	1,285,001	775,833	10, 148	2,502,722	876	1,789,878	3,037,481	44,663	72,658	1,628,441	1,028	3,695	30,874	470,022	10,849	131,239	171,634
01/13/83 PAGE	M+30	1,240,088	753,750	0,704	2,460,683	878	1,719,648	2,985,044	43,446	70, 890	1,672,487	1,028	3,766	209,62	448, 831	10, 600	131,238	100,041
DATE	H+24	1, 227, 412	746,448	9,647	2,450,175	676	1,675,263	2,944,454	41,986	69, 894	1, 663, 295	1,028	3,732	20, 163	438,624	15,477	131,230	165,337
SOCIATES	H+18	1, 167, 593	717,818	9, 153	2,412,010	878	1,645,295	2, 855, 426	40, 424	67,210	1,498,654	1,028	3,846	27,078	410,482	16,243	131,230	158, 548
KURT SALMON ASSOCIATES	M+12	1,048,871	663,033	9,310	2,308,080 -	9.16	1,400,404	2,671,434	36,017	62, 123	1,380,838	1,025	9,221	25,251	358,912	18,370	131,230	146,467
	9-2	941,650	011,790	7,670	2, 101, 458	82.8	1, 221, 102	2,487,677	30,480	67,365	1,272,010	1,028	2,978	23,228	317,378	14,289	131,239	136, 208
	SCENARIO A	037,372	1,129,243	13,651	3,836,878	878	909, 466	4, 138, 644	87,208	103,738	2,232,028	1,028	6,397	41, 108	488,388	21,402	131,239	356, 673
	SPECIFICA- TION NUMBER	MIL-C-320	MIL-C-332	MIT-C-3395	H1L-G-342	411-C-3483	88C-D-114	MIL-C-3738	HIL-C-2738	MIL-C-3760	MIL-C-3924	MIL-C-3953	MIL-C-40038	MIL-C-41808	MIL-C-41820	MIL-C-41831	MIL-C-4277	NIL-G-43122

			KURT SALMON	SALMON ASSOCIATES	Q	DATE 01/13/83 PAGE	23
SPECIFICA-		4.		RIO C			•
2022	SCENARIO A	9+X	M+12	X+-28	X+24	M+30	M+38
HIL-C-43128	388,200	240,015	262,248	286,764	300,089	303,820	313,878
HIL-C-43191	6,318,273	3,440,484	3,718,134	4,015,844	4, 171, 301	4,209,970	4,330,235
MIL-C-43204	167,308	94, 842	103,510	113,005	118,037	119,482	123,301
HIL-C-43234	58,249	31,979	34,624	37,447	38,828	39,311	40, 455
MIL-C-43247	109,753	64,120	808,808	75,487	78,634	79, 431	81,893
HIL-C-43261	793,288	381,983	428,819	487,353	523,387	833,808	553, 129
WIL-C-43258	755,379	424,051	480,878	500,445	621, 833	627, 431	543,738
HIL-C-43303	2,389,324	1,711,948	1,880,772	2,024,421	2,113,382	2,138,889	2,204,222
MIL-C-43352	0,170	1,258	1,388	1,497	1,677	1,598	1,654
HIL-C-43358	175, 107	108,928	114,140	123,573	128,504	129,762	134, 557
NIL-C-43375	177, 467	102,829	111,442	120,650	125, 462	128,890	130, 401
HIL-C-43424	23,674	14,014	15,030	16, 183	15, 825	18,942	17,421
MIL-C-43488	4,097,891	2,660,052	2,828,329	2,839,104	2,978,832	.2,988,180	3,038,278
HIL -C-43473	2, 436, 303	1,403,848	1,615,911	1.634,598	1,897,151	1,714,509	1,783,380
MIL -C-43479	2,269,544	1,383,485	1,491,668	1,588,451	1,598,541	1,607,485	1,837,973
MIL_C-43482	3,069,708	1,539,484	1,895,869	1,802,293	2,020,498	2,051,551	2, 133, 030
MIL-C-43525	402,334	208,783	228,635	257, 597	274,287	278,712	290, 162

M+10		KURT SALMON	SALMON ASSOCIATES SCENARIO C	DATE	E 01/13/83 PAGE	24
626 672,309 738,681 777,626 777,626 7 470 37,728 43,206 46,383 5,418,085 3,418,085 3,418,085 3,418,085 3,418,085 3,418,085 3,418,085 3,418,085 3,418,085 3,418 885,186 4,122 8,417 885,186 3,418 883,888 8 743 38,481 37,488 38,180 4,188 8 8 8 1,488,818 1,88 8 1,88	8 :8	M+12	M+18	M+24	M+30	M+36
470 37,728 42,206 46,383 217 841,212 895,301 626,032 6 063 2,972,235 3,289,476 3,419,065 3,4 743 38,084 44,489 48,122 8 755 34,441 37,486 38,150 8 656 786,181 880,381 883,889 8 755 1,284,301 1,429,872 1,498,818 1,8 756 12,229 13,891 14,489 1,8 628 3,389 3,891 4,189 1,8 628 12,229 12,949 14,489 1,8 628 1,284,301 1,429,871 1,8 1,8 638 40,042 42,881 14,489 1,8 644 11,800 12,949 14,489 1,8 658 11,800 12,949 14,489 1,8 658 1,286 1,44,489 1,8 1,8 658 1,286		873,308	738, 881	777, 826	767,417	615,685
217 641,212 886,301 626,032 6 063 2,872,235 3,286,476 3,416,665 3,4 743 38,884 44,489 48,122 8 743 38,884 44,489 48,122 8 060 786,181 880,381 883,889 8 752 1,284,301 1,429,672 1,489,818 1,8 056 12,229 12,816 14,489 14,489 058 1,284,301 1,429,672 1,489,818 1,8 058 1,284,301 1,428,872 1,440 1,4 058 1,284,301 1,428,817 1,440 1,4 058 11,820 12,881 44,426 878 11,804 18,671 20,821 748 128,612 144,730 184,027 748 128,61 882,070 817,268 8		37,728	43,206	46,353	47,372	40,560
063 2,672,235 3,289,476 3,419,665 3,4 743 38,084 44,488 48,122 743 38,084 44,488 48,122 080 786,181 850,381 883,889 8 162 37,486 37,486 14,486 1,8 17,804 13,829 3,889 4,189 1,8 108 11,820 12,848 13,837 14,436 108 17,804 18,871 20,831 148 128,812 144,730 164,087 1 148 128,812 144,730 164,087 1		641,212	106,301	626,032	936, 369	858,447
743 38,683 718,108 816,116 8 743 38,684 44,488 48,122 8 .060 786,181 850,351 883,856 8 .056 72,284,301 1,428,672 1,408,816 1,8 .056 12,229 13,676 14,496 1,6 .076 12,229 12,889 4,189 1,6 .076 11,820 12,881 4,189 1,6 .076 11,804 12,881 4,189 1,8 .078 12,881 14,428 1,8 1,8 .079 12,881 1,8 1,8 1,8 .089 11,804 12,804 1,8 1,8 .080 115,804 182,070 164,730 164,087 1		2, 072, 235	3,259,476	3,419,665	3,462,355	3,580,564
743 38,084 44,489 48,122 .080 788,181 850,351 883,850 8 .056 1,284,301 1,429,872 1,498,518 1,8 .056 12,220 13,670 14,400 1,8 .028 3,389 3,889 4,180 4,180 .078 11,820 12,801 44,126 44,126 .089 11,804 13,891 4,180 12,637 .409 17,804 18,671 20,821 1 .408 128,612 144,730 183,087 1 .600 818,081 817,288 9		725, 493	746, 108	916, 110	924,190	848,179
080 788,181 850,351 853,859 8 1825 34,441 37,485 38,150 1762 1,284,301 1,429,072 1,498,518 1,8 026 12,229 13,676 14,489 1,489 028 3,389 3,889 4,189 198 40,042 42,981 44,428 400 17,804 18,671 20,821 748 128,512 144,730 161,067 1 600 815,081 817,288 9		709'00	44,489	46, 122	48,020	81,40
628 34,441 37,488 39,180 762 1,284,301 1,429,672 1,498,818 1,8 026 12,229 13,676 14,489 .028 3,389 3,889 4,189 .028 3,389 3,889 4,189 .029 3,389 4,189 4,189 .039 11,820 12,849 13,637 .748 126,812 144,730 181,087 1 .609 815,081 882,070 817,286 8		786, 191	180,381	993, 588	882,708	918,704
752 1,294,301 1,429,672 1,498,516 1,8 026 12,229 13,676 14,499 ,028 3,389 3,889 4,189 ,028 40,042 42,891 44,426 ,03 11,820 12,849 13,637 ,408 17,804 18,671 20,621 ,748 128,612 144,730 161,286 ,608 815,081 862,070 817,286		34,441	37,485	39, 150	30, 603	40,882
11,056 12,229 12,600 14,489 3,026 3,389 3,889 4,189 37,589 40,042 42,881 44,426 10,879 11,820 12,949 13,637 16,404 17,804 18,671 20,821 115,746 126,512 144,730 161,067 1 182,608 815,081 882,070 817,286 8		1,284,301	1,429,672	1,498,518	1, 622, 526	1,874,505
3,026 3,389 3,880 4,189 37,580 40,042 42,801 44,426 10,870 11,820 12,849 13,837 16,400 17,804 18,671 20,621 115,748 128,612 144,730 161,067 762,606 315,081 862,070 817,286		12, 229	12,670	14,400	14,730	18, 323
37,888 40,042 42,881 44,426 10,878 11,820 12,848 13,637 18,408 17,804 18,871 20,821 115,746 128,812 144,730 161,067 782,608 315,081 862,070 817,288		3,389	3,000	-	-	4,478
878 11,820 12,948 13,637 408 17,804 19,871 20,821 748 128,512 144,730 164,067 608 815,081 882,070 817,288	37	40,042	42, 991	44,426	44,818	45,670
408 17,804 18,671 20,821 748 128,512 144,730 164,087 608 815,081 882,070 817,288		11,820	12,040	19,637	13,786	14,282
748 128,612 144,730 164,087 608 818,081 882,070 817,288		17,804	19,671	20,621	20,872	21,567
608 815,081 882,070 817,268		128,812	144,730	164,017	120,017	163, 364
			982,070	817,288	926,420	963,568
11,989 13,033 14,288 16,062 18,227	=	13,033	14,288	18,062	15,227	15,750

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	SPECIFICA-			KURT SALMON ASSOCIATES SCENARIO C	ASSOCIATES RIO C	à	DATE 01/13/83 PAGE	25
1,859,283 8,433,102 8,719,883 18,817,017 18,383 19,1857	TION MIMBER	SCENARIO A	0+11	M+12	M+18	M+24	M+30	M+36
1,856,872 6,106,173 6,716,227 7,387,446 7,766,785 7,884,481 6,15 6,106,171 3,241,873 2,406,238 2,889,716 3,887,384 3,716,833 2,716 23 6,106,171 3,241,873 2,406,238 3,897,169 3,897,284 3,997,284 3,997,28	MIL-C-43858	1,650,263	E, 433, 102	5, 873, 863	6,671,017	6,910,225	7,013,470	7,268,048
2 1,866,873 6,106,178 0,716,227 7,387,448 7,786,786 7,186,289 7,186,289 7,186,899 2,106,	HIL-C-43874	23,040	12,884	14, 138	15,517	16,363	16, 557	17, 165
4,086,171 2,241,676 2,406,338 2,882,718 2,687,264 2,715,833 2,115,833 2,115,833 2,115,833 2,115,833 2,115,833 2,115,833 2,115,833 2,115,833 2,115,833 2,115,833 2,115,833 2,115,833 2,115,833 2,124,843 889,044 883,142 7,026,822 2,124 874,443 883,044 883,142 7,026,823 2,124 874,443 883,044 883,143 7,026,823 2,126,823 2,124 823,143 1,016,823 2,126 2,126 2,124 1,027,813 1,027,813 1,027,813 1,027,813 1,027,813 1,027,813 1,027,813 1,027,813 1,027,813 1,027,813 1,027,813 1,128,330 1,178 2,178	M1L-C-43892	1,856,873	1	6,716,227	7,387,448	7,768,785	7,884,881	8, 171,048
0 0 616,260 330,285 355,154 380,685 380,885 380,004 390,004 365,154 380,685 380,885 380,004 366,164 380,685 380,004 366,164 380,685 327,327 248,838 380,004 36 1 3,271,603 810,209 868,004 881,142 10,010,744 71,446 81,114 8,378 81,283,167 21,66 20,885,682 17,274,073 18,721,379 20,288,328 21,076,828 21,076,828 21,276,828 21,888 1,242 4,228 4,228 4,849 8,114 8,378 8,488 1,17,204 1,77,407 48,600 86,731 1,010,749 1,027,874 1,09 21,1,234 1,87,781 1,880,381 1,820,384 204,219 204,214 1,022,874 1,09 4,004,742 1,387,203 1,287,834 1,010,474 1,036,722 1,07 1,387,203 146,848 1174,370 1,114,370 1,010,232,381 1,022,381 1,022,381	MIL-C-43908	4,068,171	2,241,678	2,406,238	2,503,710	2,697,264	2,716,633	2,782,832
100, 100 177, 487 187, 623 227, 237 245, 636 280, 428 868, 194 883, 483 704, 863 716, 863	MIL-C-43920	016,290	330, 265	358, 164	310,015	386,831	390,084	396,771
788,784 818,403 869,049 821,845 688,724 674,845 85 28,555,552 17,274,673 18,721,379 20,288,325 21,076,828 31,283,187 21,90 7,842 4,229 4,229 4,849 8,114 8,378 8,489 1,00 891,117 77,407 88,600 88,731 101,483 102,171 10 2711,834 182,781 182,821 1,010,749 1,027,874 1,00 2711,834 182,781 182,841 1,000,749 1,027,874 1,00 2,213,209 1,387,834 1,814,681 1,641,876 1,022,281 1,039,722 1,07 2,503,860 144,889 1,022,281 1,039,722 1,07	MIL-C-43838	337, 606	177,487	167,623	227,327	245,836	250, 426	262,622
26,585,585	MIL-G-43983	788,764	618, 403	549,048	878,160	665,724	674,845	698,879
26,595,592 17,274,673 18,721,379 20,286,326 21,076,828 21,223,167 21,92 7,842 4,229 4,849 5,114 6,378 6,458 103,171 10 80,884 77,407 85,600 85,731 101,483 103,171 10 271,234 162,781 176,811 183,864 204,219 1,027,874 1,06 2,313,209 1,327,834 1,814,861 1,841,976 1,024,219 1,022,330 1,78 4,006,782 3,625,370 3,670,383 3,720,407 3,746,180 3,784,888 3,77 1,387,203 805,821 884,080 872,839 1,022,381 1,038,722 1,07 250,860 144,889 181,218 174,370 181,257 183,050 18	MIL-C-43802	3,271,683	B 10,208	100,100	663,482	706,890	710,682	764,840
7,842 4,229 4,849 8,114 8,378 8,488 90,884 77,407 88,600 98,731 101,483 103,171 10 271,834 182,781 880,281 1,010,749 1,027,874 1,00 2,313,209 1,387,834 1,814,681 1,641,976 1,710,882 1,728,330 1,78 4,009,782 3,625,370 3,670,383 3,720,407 3,746,180 3,784,889 3,77 250,880 148,889 181,218 174,370 181,257 183,050 18	MIL-C-44031	26,595,692		18,721,379	20,268,328	21,076,628	21, 283, 167	21,806,789
80,884 77,407 86.600 95,731 101,483 103,171 271,834 162,751 176,911 183,854 204,219 206,589 2,313,209 1,397,834 1,814,881 1,841,675 1,710,882 1,728,330 4,008,762 3,625,370 2,670,383 3,720,407 3,746,180 3,754,888 1,357,203 805,821 884,060 872,833 1,022,281 1,038,722 250,860 148,889 161,219 174,370 181,257 183,050	HIL-C-44034	7,642		4,848	8,114	6,378	•	6,857
271, 234 162, 781 680, 381 682, 521 1,010, 748 1,027, 874 2,313, 204 1,387, 834 1,814, 841 1,641, 676 1,710, 682 1,728, 330 4,008, 782 3,625, 370 3,870, 383 3,720, 407 3,748, 180 3,754, 888 1,357, 203 805, 821 884,080 872, 833 1,022, 381 1,038, 722 250, 860 148, 888 181, 218 174, 370 181, 257 183, 050	HIL-C-44043	989'00		98. 600	95,731	101,483	103, 171	107, 258
2,312,209 1,387,834 1,814,641 1,641,676 1,710,652 1,728,330 1,000,762 3,745,180 3,745,180 3,754,868 3,1,357,203 805,821 864,060 872,939 1,022,281 1,036,722 1,036,722 1,035,050	MIL-C-44050	931.117	767,791	180,251	652, 521	1,010,749	1,027,874	1,069,108
2,312,209 1,387,834 1,814,681 1,641,976 1,710,652 1,728,330 4,008,782 3,625,370 2,670,383 3,720,407 3,748,180 3,754,888 1,357,203 805,821 884,080 872,939 1,022,381 1,038,722 250,860 148,889 181,218 174,370 181,257 183,050	M11-C-483	271, 934	162,751	178,011	103, 864	204,210	. 206, 589	214,072
4,008,782 3,625,370 8,870,383 3,720,407 3,748,180 3,754,868 3,778, 1,357,203 805,821 884,080 872,833 1,022,381 1,036,722 1,073, 250,860 148,889 181,219 174,370 181,257 183,050 188,	WIL-C-484	2,313,208		1,614,661	1,641,976	1,710,682	1,728,330	1,780,844
1,357,203 805,821 884,080 872,833 1,022,281 1,038,722 1,073, 250,860 148,889 161,218 174,370 181,257 183,050 188,	MIL-C-5040	4,008,782	3,625,370	3,670,363	3,720,407	3,748,180	3,754,969	3,775,845
250,860 148,889 161,219 174,370 181,257 183,050 188,	M11C-508	1,357,203	805,021	884,080	672, 939	1,022,281	1,038,722	1,073,298
	MIL-C-51251	250,860	148,889	161,219	174,370	181,257	183,050	188,378

PAGE 28	#*************************************	101.331	1,068,858	3.621.030	847.898	5,326,290	2,706,219	338	933	65, 387	27,687	3,748,128	40,519	38,800	913, 394	30,470	2,834,774	8,410,788
UATE 01/13/83	M +30	184, 937	1,068,823	3,821,030	824,089	5, 188, 956	2, 703, 828	327	787	367 76	26,628	3,628,846	48,084	39,413	784,879	30, 194	2,817,651	6, 238, 246
	M+24	162, 992	1,068,828	3,621,030	016,346	8,143,150	2,702,888	322	780	14,847	26,714	3,663,894	16, 254	39,481	775,049	30,306	2,637,374	8,179,970
KURT SALMON ASSOCIATES SCENARIO C	R+10	174,241	1,068,816	3,821,030	785,897	4,965,356	2,690,946	307	727	94, 429	24,742	3,410,481	48,050	30, 301	736,386	30, 173	2,827,404	4,980,384
KURT SALMON	M+12	150,764	1,048,888	3,621,030	727,611	4,625,532	2,694,573	778	638	62,383	22,010	3,082,332	45,052	36, 63	671,707	29,818	2,738,873	4,845,041
	=	147,411	1,088,784	3,621,030	672,880	4, 307, 370	2,689,706	283	698	607'90	18,877	2, 738, 667	43, 156	37,038	017,870	28,278	2,632,770	4, 182, 871
	SCENARIO A	240, 188	1,070,408	3,621,030	1,191,720	0,954,867	2,728,578	409	830	185, 423	34,891	2,344,674	80,878	69,628	967,699	65, 699	111 (666	8,463,733
COFCIFICA.	TION NUMBER	MIL-C-6580	MIL-C-7020	WIL-C-7040	MIL-C-7218	MIL-C-7350	HIL-C-7818	MIL-C-8081	MIL-C-81383	MIL-C-81814	WIL-C-62262	MIL-C-823	WIL-C-03242	M1L-C-83388	MIL-C-83428	MIL-C-83450	MIL-C-87052	MIL-F-21840

			KURT SALMON ASSOCIATES	ASSOCIATES	Va	DATE 01/13/83 PAGE	27
SPECIFICA-			SCENAR				
TO WASH	SCENARIO A		M+12	#+ C	M+24	N+30	M+36
MIL-F-43539	157,817	09,46	96, 995	103,837	107,946	100,017	112, 184
MIL-Q-3866	409,840	228,420	281, 156	276,258	280,520	294,860	305, 562
MIL-H-41802	130,623	314,652	348,048	394,730	423, 110	430, 199	448,302
MIL-L-11075	14, 800	3,471	8,208	10,010	10,630	10,753	11, 143
M1L-L-16040	098'09	322, 684	381,813	428,966	445, 627	401,037	478,296
MIL-L-1870	37,200	21,179	020'62	28, 226	20,674	26,612	27,857
MIL-L-1709	232,437	132,200	146,872	181,629	169,738	172,678	178,842
MIL-L-40051	47,276	26, 263	28, 438	30,752	31,566	32,262	33,221
M11-L-40069	1,800	1,070	1,217	1,385	1,405	1,620	1,500
MIL-P-15064	\$80°884	1,237,362	1, 421, 059	1, 595, 611	1,678,081	1,724,140	1,780,045
N11-R-1670	156,000	63,377	104, 908	118,609	128,060	130,74	136,637
NIL-R-17343	1,875,000	361,623	387, 608	137, 236	469, 808	486,677	463,616
MIL-R-24049	6,750,000	1,301,483	1,431,033	1, 574, 050	1,655,307	. 1,610,037	1,741,017
MIL-R-30500	4,910,013	1, 135, 633	1,251,017	1,380,450	1, 464, 141	1,476,663	1,831,50A
HIL-8-3677	386,651	203, 420	226,322	260,044	281,016	286, 195	300,023
MIL-S-43355	198,464	446,503	407,211	563, 900	604,443	614,571	041,860
MIL-S-43893	7,029						

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200, 945	2	180,285 20
3,308 6,763,788,	5, 523,	8,074,754,918 6,535,52
17,873,953		380, 181 17,87
81, 116, 830	크	44,437,589 51,1
11,032,151	잌	10,423,040 11,0
30, 408, 989	7	27, 197, 154 30,
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23,976	ĺ	20, 843
3,919,281		631,598 3,
56,391	1	B2, 998
32,772	- 1	32,786
47, 136	j	47,138
68, 638, 683	•	485,013 68,6
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				KURT SALMON ASSOCIATES SCENARIO C	ASSOCIATES NO C		DATE 01/13/83 P	PAGE 29
\$17,701 \$17,702 \$19,824 \$1,002 \$44,717 \$44,204 \$1,00	TION NUMBER	SCENARIO A	X +0	M+12	84-18	N+24	M+30	N+36
7,049,183 4,081,887 4,886,180 6,010,006 6,067,377 6,22 281 281 281 281 281 281 281 281 281 8123,07 1,820,006 1,888,189 1,888,180 1,889,	MIL-W-1737	63,601	41,581	12,154	51,092	34,096	84,850	67,001
7,049,183 4,081,887 4,428,187 4,806,180 8,010,006 8,087,217 8,322 281 281 281 281 281 281 281 281 281 2	MIL-W-27285	679,742	636, 820	641,413	546,206	648,717	646, 371	681, 313
281 281 281 281 281 281 281 281 281 281	MIL-W-4088	7,049,193	4,081,887	4,425,697	4,806,150	8,010,006	6,067,217	6,220,983
3.155,603 1,489,463 1,690,047 1,732,100 1,602,234 1,610,667 1,620,006 1,62 3.155,603 1,477,147 1,600,647 1,732,100 1,602,234 1,610,667 1,62 360,467 211,208 244,463 286,574 285,678 282,771 282,771	MIL-W-43566	201	201	201	291	201	301	201
3,185,603 1,477,147 1,800,847 1,723,100 1,802,224 1,810,887 1,877 1,877,147 1,800,847 1,723,100 1,802,224 1,882 282,815 282,81	MIL-W-43638	2,599,693		1,831,194	1,789,032	1,483,307	1,820,006	1,889,112
380,467 223,028 244,463 288,674 283,676 286,238 288, 288, 288, 288, 288, 288, 288, 2	M1L-W-43668	3, 155, 603	1,477,147	1,600,847	1,733,100	1,802,224	1,810,867	1,673,182
4,262 6,742,461 8,742,461 8,742,461 1,6,666 <	MIL-W-43685	295, 607	222,028	244, 463	286,574	263,676	286,235	201,000
4,262 6,142,651 6,142,651 6,142,651 6,142,651 6,142,651 6,142,651 6,142,651 4,262 4,262 4,262 4,262 4,262 4,262 4,262 6,142,651 6,142,651 6,142,651 6,142,651 6,142,651 2,247 4,262 1,262 2,145,662	M1L-W-43688	360, 487	211,200	-		259,005	262,612	270,483
12,824,246 7,472,058 8,142,836 8,888,402 9,320,863 8,432,851 8,742,656 078,486 335,787 365,736 366,731 416,287 421,327 43 488,447 285,385 281,885 280,013 302,771 303,724 30 3,048,880 2,089,880 2,347,162 3,387,668 3,456,287 2,470,640 2,52 811,340 383,886 383,817 450,244 483,787 460,435 47 8,072 1,375 1,628 1,831 1,804 1,904 1,971	MIL-W-5038	4, 252	4,252			1,252	4,252	4,252
10,856 10,856 10,856 10,856 10,856 10,856 10,856 10,856 10,856 10,856 10,856 10,856 10,856 1327 43 489,447 2265,255 291,856 302,771 .303,724 30 3,049,650 2,089,850 2,347,162 2,387,859 2,456,267 2,470,840 2,82 3,049,650 2,089,850 2,347,162 2,387,859 2,456,267 2,450,435 470,840 435 611,340 353,656 388,817 450,244 453,767 460,435 47	WIL-W-530	12, 824, 246	7,472,058	0,142,638	-	6,320,863	6,432,851	0,746,672
678,489 335,787 365,736 398,311 416,287 421,327 43 3,048,680 2,098,880 2,347,162 2,387,989 2,456,287 3,470,840 2,82 393 383 383 383 383 383 383 611,340 353,686 348,817 450,244 463,767 480,436 47 6,072 1,376 1,628 1,831 1,804 1,804 1,871	MIL-W-6625	10,858	10, 868	10,056	10, 858	10,888	10, 659	10,050
480,447 285,255 291,855 : 289,013 302,771 : 303,724 30 2,049,850 2,247,162 2,387,669 2,456,287 2,470,640 2,62 383 383 383 383 383 611,340 383,686 388,817 450,244 483,767 480,435 47 6,072 1,375 1,628 1,831 1,804 1,904 1,971	MIL-W-5684	U78,498	335,787	368,738	398,311	410,287	421,327	435,004
3,049,660 2,247,162 3,387,689 3,456,287 3,470,640 2,62 383 383 383 383 383 611,340 353,686 385,817 430,244 453,767 460,435 47 6,072 1,376 1,620 1,831 1,804 1,871	MIL-V-5865	410,447	285,255	291,885	. 286,013	302,771	303,724	306,011
0 383 383 383 383 383 383 383 383 478 480,435 478 480,435 478 6,072 1,375 1,628 1,831 1,804 1,801	MIL-W-846	3,048,680	2,099,680	2,247,182	3,387,669	2,456,207	8,470,640	2,620,199
611,340 353,686 368,817 430,244 453,767 460,435 47 6,072 1,376 1,628 1,831 1,904 1,971	PPP-T 60	383	383	363	383	393	383	383
6,072 1,376 1,629 1,831 1,804 1,871	T-C-571	611,340	383,686	388,817	450,244	463,767	480, 435	477, 623
	T-R-605	6,072	1,376	1,629	1,431	1,004	1.071	2,042

			KURT SALM	KURT SALMON ASSOCIATES		DATE 01/13/83	
SPECIFICA-			SCEN	WRIO C		1	05 3004
TION NUMBER	SCENARIO A	9+3	N+12	80+18	N+24	M+30	M+30
T-R-616	3,860	102	121	90)	142	147	152
T-T-871	1,048,644	871,874	623, 860	661,199	713,480	722, 130	745,010
T-T-881	22,643	11,871	13,284	15, 190	16, 374	10,092	17,482
T-T-011	663,672	465,861	631,054	881,781	608,466	617,227	637, 610
V-B-871	163,200	120,801	130, 605	141, 478	147,063	140,510	162,840
V-F-108	184,200	26,024	28, 978	33, 331	36,048	36,718	909 '86
V-L-81	1,419,410	817,300	884,358	956, 196	993, 198	1,003,578	1,032,728
V-T-276	1, 523, 441, 628	1,285,801,028	1,424,217,820.	1,647,431,158	1,600,815,618	1,627,756,214	1,674,627,953
V-T-280	35,881,069	27,573,468	29,994,612	32, 503, 564	83,781,438	34, 155, 048	35, 159, 393
V-T-285	1,208,240,184	696, 605, 628	769, 788, 614	827,815,720	864,386,795	874,004,811	801, 508, 598
V-T-295	478,804,625	310, 937, 160	334, 880, 001	359,636,368	372,346,010	375,651,032	385,662,640
V-T-301	10,046,052	24,859,441	28,216,179	31, 880, 292	33,872,045	34,748,424	36, 181, 646
V-T-385	62,366,400	32, 160, 165	34, 289, 311	35, 615, 722	35, 987, 644	36,087,447	36,615,434
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SOFTER TELE			KURT SALMON ASSOCIATES SCENARIO D	ASSOCIATES NO D	0	DATE 01/13/83 PA	PAGE 31
TION NUMBER	SCENARIO A	**	N+12	M+18	H+24	M+30	M+30
C-F-208	1,073	808	1,403	2,057	2,631	3,204	3,778
C-T-301	11,064	199	916	1,269	1,623	1, 078	2,332
14-9-00	24, 174	21, 155	34,515	47,876	61,237	74,501	87,969
CCC-C-418	3,746,178	3, 180, 056	5, 166, 580	7,153,064	9, 139, 557	11, 128, 070	13, 112, 870
CCC-C-428	264,669	230, 503	378,082	621,664	667,244	812,823	858,404
CCC-C-428	621	30	93	97	88	. 32	**
CCC-C-420	1,207,000	084,037	1,688,053	2, 161, 167	2,764,284	3, 367, 401	3,870,817
064-0-000	1, 130, 966	102,139	1,450,736	2,020,638	2, 584, 533	3, 148, 431	3,712,329
CCC-C-432	38,048	30,862	60,366	69,847	00,339	108,831	128, 323
8ct-0-000	3,776,132	3, 197, 670	6,217,250	7,236,831	9,258,413	11,275,993	13, 295, 573
SCC-C-438	67,648	60,010	67,784	136,607	173, 462	211,295	246, 139
CCC-C-440	7,663	6,684	10,766	14,623	10,01	23,283	37,417
111-3-33	621	495	808	1, 121	1.434	1,747	2,059
CCC-C-448	72,570	010,010	112,596	156, 180	189,766	243,381	266, 936
197-0-00	B73	705	1, 150	1,595	2,040	2,405	2,630
CCC-C-487	2,848,040	2,483,898	4,020,043	5,578,190	7, 132, 337	0,658,480	10,244,629
CCC-C-478	1,098	1,682	2,744	3,806	4,868	6 , 930	6,992
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			URT SALMON	SALMON ASSOCIATES	0	DATE 01/13/83 P.	PAGE 32
SPECIFICA- TION MANBER	SCEHARIO A	K +0	M+12	N+18	14-24	M+30	96-38
000-1-30	45,556,411	50,346,090	62, 133, 163	113,026,678	145,720,159	177,513,655	208,318,451
000-1-86	914,719	808,849	1,314,806	1, 823, 763	2, 332,722	2,841,678	3,350,634
JJ-Y-188	31,404,396	30,238,841	49, 333, 956	86,430,878	87,527,880	100,625,005	128,722,023
KK-L-2004	12,627	12,231	19, 955	27,679	35,405	43, 130	50, 854
KK-L-271	15, 202	13,000	21,211	20,422	37,632	45, 843	150'75
KSA-8-1000	10,482	10,788	17, 665	24,364	31, 163	37,962	44,781
KSA-C-1000	135, 300	118,772	181, 882	262,011	338, 130	408,249	481,389
KSA-C-1100	1,234	310	208	701	100	1,063	1,280
KSA-C-1200	1,044,414	840,485	1,371,280	1, 902, 063	2, 432, 897	2,963,711	3,494,528
KSA-C-2000	1,442,928	996,734	1,626,238	2,255,746	2, 355, 255	2,514,766	4,144,276
KSA-C-4000		8	111	100	907	241	284
KSA-C-5000	1,834	1,468	2,398	3,322	4,240	8, 178	6, 103
KSA-K-1000	089	8,271,988	13,486,387	18,720,808	23, 948, 220	29, 189, 632	34,384,043
KSA-K-2000	629,221	580,822	947,656	1,314,491	1,081,325	2,048,160	2,414,925
KSA-K-3000	1,666,959	1,677,736	2,567,677	3,561,617	4,655,557	8,649,496	8,843,436
KSA-K-4000	64,671	55,076	190,001	124,048	159, 431	194,210	229,001
KSA-K-6000	18,021	14,027	22,888	31,746	40,608	101'61	66,324
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			KURT BALMCH	BALMCH ASSOCIATES	70	DATE 01/13/83 PAGE	33
SPECIFICA- TION MUMBER	SCENARIO A	2 +4	M+12	M+18	**************************************	M+30	X+36
KSA-K-7000	658, 304	388, 856	350,765	802,674	1, 164, 663	1,406,482	1,658,401
KSA-K-8000	11, 374	6, 602	15, 804	21,606	27,807	33,608	38, 810
K\$A-K-800	1,440	1, 105	1,048	1,704	3,488	4,213	4,867
KSA-N-1000	4,242	4,072	0,643	9,218	11,787	14,368	18,830
KSA-NV- 100	23,470	64,312	104,830	148,648	188, 167	226,785	267,403
KSA-PC-100	159	186	216	339	434	628	623
KSA-T-3000	16,344	12,307	20,227	28,057	35,810	43,710	61,540
KSA-T-4000	263, 168	205,643	338,622	488, 402	595,281	725, 161	655,040
KSA-W- 1000	30,840	7,746	12,642	17,638	22,420	27,322	52,216
KSA-WP-100	6,332	8, 496	0.051	12,410	12,001	10,346	22,011
KSA-Y-2000	18, 143, 226	17,643,795	28,787,038	19,044,273	61,091,613	62,238,752	73,385,381
K\$A-Y-3000	60, 153	64,724	138, 234	101,743	245,253	208,763	352,273
L-5-125	729' 988	804.788	823,646	1,142,339	1,461,128	1,778,821	3,088,716
LPP-DES12-60	28, 130	25.673	41,724	87.378	74.027	90.178	106, 328
LPP-DES13-90	10, 164	9,045	10, 228	32,507	26,788	38,089	41,350
LPP-0ES16-73	987, 173	965, 967	1,676,050	2,156,135	2,786,220	3, 400, 303	4,018,387
LPP-DES23-73	474,653	420, 808	616, 879	862,350	1,218,123	1,483,894	1,740,687

PAGE 34	#C+3	2.811.808	4	902, 871	95, 313, 631	26, 314, 828	4,273,116	333.608	166.177	17, 107, 730	77 67	7.871.844	3.400.750	3,670,169	11,838,248	4, 294, 889	13.054	188,508	
DATE 01/13/83 P	M +30	2, 130, 183	304,308	811,296	80, 835, 608	22,317,635	3,624,037	282, 181	140,938	14, 509,088	37.273	6,676,122	2,004,181	3, 112, 677	10,037,486	3,642,601	11,071	142,010	
70	K-24	1,748,642	249,806	410,720	66,357,590	18, 320, 448	2,874,950	231,625	115,693	11,010,448	30,897	B, 480, 400	2,367,611	2,555,182	6,238,728	2,880,112	900'0	117,314	
SALMON ASSOCIATES SCENARIO D	E+18	1,367,120	195,303	328, 145	81,679,674	14, 323, 269	2,328,874	181,048	90,481	9, 311, 802	23,622	4,284,675	1,881,042	1,007,688	6,441,969	2, 337, 728	7, 108	91,718	
KURT SALMON SCENAR	M+12	998,598	140,800	236,870	37, 401, 851	10, 328, 067	1,676,783	130,651	. 802'30	6,713,160	17,248	3,088,683	1,334,472	1,440,193	1,644,210	1,688,337	6, 129	68, 122	
	2	604,078	10,297	144,084	22, 923, 636	6,328,583	1,027,712	80,018	38,967	4,114,817	10, 870	1,885,228	817, 902	993, 899	2, 848, 451	1,032,848	9,140	40,527	
	SCENARIO A	698, 124	99,732	170, 115	14, 672, 861	7,209,298	1, 120, 402	107, 188	47,552	4, 512, 326	12,460	2,286,820	988,670	1,024,198	3,068,303	615, 121	3, 996	51,652	
SPECIFICA.	TION NUMBER	LPP-DES32-75	LPP-DES8-78	MIL-8-17757	M1L-B-371	MIL-B-41828	M11-5-693	MIL-D-01813	MIL-8-87019	M1L-C-10296	MIL-C-10788	MIL-C-10888	MIL-C-11085	MIL-C-12095	MIL-C-12189	MIL-C-12368	HIL-C-15062	MIL-C-15085	

	-		KURT SALMON	SALMON ASSOCIATES	DATE	01/13/83	PAGE 35
SPECIFICA-		•		a 022			
NAME OF THE PERSON	SCENAKIU A	99 **	M+12	X+18	M+24	.4+30	M+38
MIL-C-18280	330,335	288,204	470,227	652,251	834,275	1,018,298	1, 198, 322
MIL-C-16376	138	1	11	10	20	20	28
MIL-C-17158	721,706	676,283	1, 103, 410	1,530,536	1,957,662	2,384,787	2,811,918
MIL-C-17157	1,339,728	1, 290, 428	2, 105, 432	2,920,439	3,738,448	4,650,481	5,385,457
NIL-C-1734	2,580	2,638	4,304	6,970	7,636	6,303	10,889
MIL-C-18387	190,651	167,484	273,283	379,043	484,822	690, 601	690,381
MIL-C-18002	6 25	760	1,234	1,898	2,173	2,646	3, 120
MIL-C-19899	2,851	2,614	4, 102	089'9	7,278	8, 166	10,454
MTL-C-18759	953,300	822, 167	1,341,418	1,880,672	2,378,629	2, 899, 185	3,418,443
MIL-C-20698	21,662	16, 123	20,500	41,018	52,461	63,807	76,353
MIL-C-21116	227,379	178,645	281,474	404,302	617, 131	629,959	742,788
MIL-C-2184	9.684	7,301	11.911	16,522	21, 133	25,744	30,356
MIL-C-21852	65, 121	66,046	107,759	149,473	101,105	. 232,600	274,012
MIL-C-23926	825	750	1,224	1,691	2,172	2,648	3, 120
HIL-C-20118	37,660	36,374	69,348	12,321	105,294	128, 267	151,240
MIL-C-29127	26,672	24,510	39,990	65,470	70,850	96,430	101, 910
MIL-C-29137	7,976	6,683	10, 605	16, 125	19,347	23,568	27,789
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PAGE		90 + 3	2 863 810	874.881	72 00	3.850.341	47.148	13,720,838	878	418 802	is 758 and		8.000 118	# CO #	18 827	167 121	1 648 738		131,239	
01/13/83		M+30	2, 174, 110	828,772	144 748	3,265,479	39, 884	11,640,731	876	355, 857	13,363,448	306,301	6,764,911	1.028	18, 867	122.738	1,565,370	77.658	131,238	
DATE		N+24	1,784,722	678,694	118,623	2,680,617	32,823	9,655,628	878	292, 121	10,989,996	281,441	B, 569, 703	1,026	13, 107	100, 755	1,285,005	63,748	131,230	
SALMON ASSOCIATES	a 2	M+10	1, 395, 328	830, 618	92,000	2,085,758	28,662	7,470,917	97.0	220,300	8,576,541	108,582	4, 354, 494	1,025	10,248	277.97	1,004,641	49,840	131, 239	
KURT SALMON A		M+ 12	1,005,834	382, 536	66,973	1,510,883	18,600	5,388,010	878	184,650	6, 153,088	141,722	9, 139, 207	1,028	7,368	56,789	724,278	38, 631	131, 239	
		X+0	616,540	234,458	41,048	\$26,031	11,338	3,301,103	978	100, 918	3,789,635	. 86,882	1,024,078	1,025	4, 626	34,808	443,011	22,023	131,230	
		SCENARIO A	695,011	288,404	47, 933	1, 120, 343	13,681	3,636,676	82.8	128,308	4, 138, 844	103,736	2, 232, 928	1,028	8,397	41, 108	455,067	21,402	131,230	
	TION MEMBER		MIL-C-20147	MIL-C-297	MIL-C-326	MIL-C-332	MIL-C-3388	N1L-C-342	M1L-C-3453	MIL-C-368	MIL-C-3735	MIL-C-3760	MIL-C-3924	HIL-C-3953	MIL-C-40038	M11C-41808	MIL-C-41820	M11-C-41631	MIL-C-4277	

/83 PAGE 37	X+36	728, 323 668, 769	274,403 1,502,656	.749 21,888,873	501,684 595,074	170,770 201,358	341,698 402,897	099 2,141,371	712 2,662,081	120 10,744,142	638 7,827	127 667,419	850 647, 152	75,038 88,478	350 16,882,788	942 5,852,640	227 7,882,581	9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
DATE 01/13/83	M+30		1,	628 18, 392, 749				627 1,818,003	348 2,257,712	9, 112,	6,	448 562,127	548 545,850	598 . 75,	915 14,301,360	238 7,507,942	6,685,	9 9
S	M+24	467, 431 687, 878	817,801 1,046,152	,301 15,098,525	323,802 414,284	140, 185	219,289 280,488	, 558 1, 490, 827	981 1,853,346	078 7,480,088	,280 5,	360,768 481,448	247 450,548	48, 159 61,	478 11,739,915	6, 183,	519 5,487,873	3 B C C C C C C C C C C C C C C C C C C
IT SALMON ASSOCIATES SCENARIO D	M+18	336,885 467,	238,650 817,	8,510,077 11,804,301	233,611 323,	79,013 108,	158, 100 219,	840,286 1,185,558	1,644,815 1,448,981	4,216,056 5,848,078	3,071	360,089 360,	253,946 352,247	34,719 48,	6,617,043 9,172,478	3,473,824 4,818,530	3,093,185 4,280,518	3 153 032 4 373 550
KURT	B M+12	208,840 33	361,397 58	6,215,854 8,51	143,120 23	48,427	98,900	515,013	640,248 1,64	2,584,034 4,21	1,882	161,808 26	155, 844 25:	21,279 34	4,055,607 6,61	2,129,118 3,47;	1,895,811 3,093	1.932.503 3.153
	SCENARIO A M+8	368,673	388,200	6,316,273 6,	167, 308	68,249	108,753	725,349	755,379	2,369,324 2,6	6,170	176, 107	177,457	23,674	4,097,991 4,0	2,436,303 2,1	2,001,830 1,8	2,802,480 1.9
SPECIFICA-	TION NUMBER SC	MIL-C-43122	M1L-C-43128	MIL-C-43181	HIL-G-43204	MIL-C-43234	HIL-C-43247	HIL-C-43251	HIL-C-43258	MIL-C-43303	MIL-C-43352	NIL-C-43358	MIL-C-43376	HIL-C-43424	WIL-C-43468	M1L-C-43473	MilC-43478	HIL -C-43482

CIFICA-							
TION NUMBER	SCENARIO A	M+0	M+12 3+18	21+18	N+24	M+30	W+30
MIL-C-43525	368, 577	263,719	463,025	642,259	621, 484	1,000,730	1,179,965
MIL-C-43594	172, 104	372, 108	607, 124	842, 140	1,077,158	1,312,170	1,647,188
MIL-C-43600	60,820	40,725	91, 130	112,536	143,641	175,346	206,781
MIL-C-43606	883,480	736,010	1,200,822	1,065,657	2, 130, 491	2,695,326	3,080,180
MIL-C-43827	4,733,830	4,096,219	6,683,303	8,270,380	11,857,478	14,444,559	17,031,645
HIL-C-43937	1, 105, 200	1,015,194	1,656,369	2,297,645	2,638,720	3, 579, 895	4, 221, 071
MIL-C-43878	1,268,682	1,099,494	1,783,810	2,488,327	3,162,745	3,877,161	4,671,570
MIL-C-43701	57, 137	47,689	377,776	107,883	137,988	166,095	198, 202
MIL-C-43718	455,950	408,731	808,800	927,284	1, 188, 061	1,444,838	1,703,818
MIL-C-43734	12,013	16, 673	27,040	37,607	47,874	68, 441	908.80
MIL-C-43774	4, 943	4,488	7,339	10, 180	13,022	18, 863	18, 704
MIL-C-43781	70,681	87,812	04,324	130,837	167,350	203, 862	240, 376
MIL-C-43824	16, 236	10,307	28,800	36, 906	47,203	67, 503	67,802
M1L-C-43838	24,469	13,417	21, 691	30,366	38,840	47,313	68,787
MIL-C-43842	134,709	173, 101	202, 420	381,783	601,080	610,406	710,732
MIL-C-43843	1,230,178	1, 128, 599	1,843,031	2,556,462	3,200,883	3,863,324	4,696,756
HIL-C-43847	21,218	17,965	20,311	40.657	H2 003		. (

			KURT SALHON ASSOCIATES	ASSOCIATES		DATE 01/13/83 P	PAGE 39
SPECIFICA- TION NAMER	SCENARIO A	9 + 2	SCENAL M+12	M+10	N+24	M+30	M+36
M1:-C-4388	1,650,283	8, 123, 838	13,264,678	18,308,621	23, 616, 364	29,647,207	33,778,050
MIL-C-43874	23,040	19,488	31,763	44,050	196,354	52,650	80,948
MIL-C-43882	1,856,573	9, 133, 280	14, 901, 833	20,670,008	26, 431, 383	32,206,757	37, 876, 132
M1L-C-43808	4,065,171	3, 402, 118	5,550,823	7,600,520	9, 848, 236	11, 996, 941	14, 146, 647
MIL-C-43820	11.0	120	1,350	1,873	2,397	2,010	3,442
MIL-C-43883	711,312	714,446	1, 165, 676	1,618,905	2,068,134	2,619,383	2,870,593
MIL-C-44031	26,595,592	26,147,418	42, 861, 574	80,175,732	78,688,880	82,204,048	108,718,208
MIL-C-44034	7,042	6,323	10,316	14,309	16,303	22,296	26,210
MIL-C-44043	90,884	118,010	188,280 .	262, 549	335, 819	400,008	482,358
MEL-C-44050	931,117	1, 149, 878	1,876,281	2,602,582	3,328,884	4,056,187	4,781,489
MIL-C-483	271,834	243, 608	397, 954	652,001	706,048	860,088	1,014,143
M11-C-404	2,312,488	2, 112, 551	3,446,702	4,781,036	6,116,277	7,449,520	8,783,762
MIL-C-5040	4,008,782	3,895,143	4,400,182	4, 805, 819	8,411,187	5,016,407	0,421,835
NIL-G-808	1,357,184	1,210,514	1,975,167	2,739,748	3, 804, 329	4,268,808	E,033,481
MIL-C-81251	250, 860	225,471	367, 874	B10,277	652,680	795,043	937,486
MIL-C-6590	248, 159	221,346	361,142	500,940	640,737	780,633	820,330
HIL-C-7020	1,070,409	1,070,038	1,072,405	1,074,775	1,677,144	1,079,514	1,081,883

PARTIES OF BRANCH PROPERTY PROPERTY OF THE BOARD			KURT SALMON ASSOCIATES	ASSOCIATES	٥	DATE 0:/13/83 P/	PAGE 40
SPECIFICA- TION MANBER	SCENARIO A	X+0	M+12	8+18	M+24	M+30	BC+28
MIL-C-7040	3,621,030	3,621,030	3,621,030	3,621,030	3,621,030	3,621,030	3,621,030
MIL-G-7210	1, 101, 720	1,010,043	1,637,318	2,264,565	2, 891, 610	3,519,065	4,146,317
MIL-C-7350	6,954,867	6,271,216	0,024,683	13,878,150	17,231,617	20,885,082	24,538,549
MIL-C-7618	2,728,878	2,712,820	2,780,082	2,808,284	2, 852, 436	2,888,608	2,844,781
MIL-C-6061	107	383	628	198	1, 108	1,350	1,602
MIL-C-81393	930	969	1,364	1, 102	2,421	2,040	3,477
MIL-C-81814	165, 423	136,218	222,247	308,278	384, 308	480, 338	566, 371
NIL-C-823	463,667	412,047	673,268	199,668	1, 184, 502	1,455,122	1,718,740
MIL-C-83242	60,878	66,428	106,364	150, 338	102,205	234,248	276,206
MIL-C-83308	00,620	56,030	91,418	128, 606	162, 193	187,581	232, 966
MIL-C-83428	967,688	925,997	1,810,837	2,098,077	2,680,517	3,265,357	3,850,197
MIL-C-03450	62,000	43,528	71,014	99,504	128, 803	163, 483	180,872
HIL-F-21840	8, 462, 883	6, 294, 867	10, 266, 582	14,243,508	18,218,440	22, 103, 380	20, 170, 313
KIL-F-43539	157,617	134,248	219,032	303,818	388,605	473,381	629, 178
M1L-G-3866	408,840	341,646	687,280	772,874	918,618	1,204,400	1, 420, 114
MIL-H-41802	130,028	470,431	707,646	1,064,680	1,361,778	1,658,889	1,956,003
MIL-L-11076	14,880	12,695	20,712	28,730	38,747	44,765	62,763

PAGE 41	M+36	131,957	1,648,694	165,372	879'9	1, 124, 934	717,717	2,247,624	8,091,445	7,056,698	2,794,291	110,849	808, 808	1,072,885	1, 124, 444	7,301,745,77.1	191 790798	38, 628, 67	
DATE 01/13/83 P.	M+30	111,012	1,310,821	140,252	899	884,058	489, 983	1,806,212	6,862,385	5, 985, 048	2,369,841	84 ,012	592,742	868,808	663,642	3,671,781,850	79, 770, 833	31,319,166	
٥	H+24	91,868	1,076,048	118, 132	4,642	783,181	402,206	1,564,801	5,633,284	4,813,088	1,945,392	77,173	416,579	746,031	782,843	9,432,043,304	65, 463, 621	25,709,765	
KURT SALMON ASSOCIATES	E+10	71,624	708,288	90,012	3,629	012,308	314,484	1,223,390	4,404,204	3,841,150	1,520,843	80,338	380,417	593, 965	012,042	6, 192, 324, 767	81, 196, 208	20, 100, 382	
KURT SALKON	X+12	61,780	009,809	64,003	2,617	441,429	226,699	881, 879	3, 176, 124	2,769,201	1,096,494	43,488	274,254	420,000	441,237	952,606,228	36, 808, 897	14,480,859	
	0 +	31,736	371.724	39,773	1,604	270, 553	138,845	540,581	1,646,044	1,697,252	672,045	26,659	188,091	258,031	270,438	0,712,983,651	22,621,580	881,555	
	SCENARIO A	37,200	441,628	47,278	008'1	322,272	156,000	1,875,600	6,750,000	4,989,083	109, 464	28,773	208,883	317,520	342,264	6,346,309,232	17,348,085	49,875,320	
	SPECIFICA- TION NUMBER	MIL-L-1870	MIL-L-1709	Nit-1-40051	HIL-L-40069	MIL-P-15084	MIL-R-1670	HIL-R-17343	HIL-R-24040	MIL-R-30500	HIL-S-43365	MIL-S-8780	MIL-T-2263	HIL-T-34648	MIL-T-40825	MIL-T-43548	111-1-4356	MIL-T-43624	

SCENARIO A No. SCENARIO D No. No				KURT SALMON	SALMON ASSOCIATES	0	DATE 01/13/83 P	PAGE 42
10	SPECIFICA-				2 0 0 1			
10, 10, 10, 10, 10, 10, 10, 10, 10, 10,				71.4	81+M	M+24	M+30	M+36
1	NIL-T-43836	30,476,623	_1	60, 167, 936	83,458,751	106,749,565	130,040,378	153,331,192
B	MIL-T-43708	16,793	11,700	18,080	26,479	33,689	41,280	
13,086 32,867 33,442 33,887 34,352 34,807 4	MIL-T-5038	6,437,838	B, 009, 240		11, 137,717	14,201,957	17,288,107	20,330,433
47,136 47,136 47,136 47,136 47,136 47,136 47,136 47,136 47,136 312,617,163 366,83 3 85,851,076 68,737,703 144,782,563 200,827,433 286,872,239 312,617,163 366,83 3 185 186 2310 101,864 141,316 180,371 216,724 2 25 579,742 884,853 616,782 678,731 720,670 772,609 8 8 7,044,183 6,011,763 8,628,412 13,238,038 16,882,703 20,469,349 24,0 3 175,640,183 2,235,863 3,647,887 8,090,112 6,472,238 7,884,392 6,21 8 3,155,603 2,235,863 3,647,887 8,090,112 6,472,238 7,884,392 6,2 8 3,055,647 331,858 841,469 751,071 880,672 7,884,392 6,2 8 4,252 4,252 4,252 4,252 4,252 4,252 2 4,252 12,884,448 11,297,394 18,432,592 32,702,883 39,23,178 46,82	MIL-T-5681	33,059	32,987	33,442	33,897	34,352	34,807	35, 262
93 95, 951,076 76, 737,703 144,782,663 200,827,433 256,872,239 312,917,193 386 487 583 37 63, 801 62,310 101,864 141,016 180,371 219,724 250, 55 572,724 884,833 616,782 675,731 720,670 772,609 824,072 6 7,048,183 6,011,765 8,638,412 13,238,039 16,832,703 22,466,346 24,079, 86 2,11,774 2,811,315 8,050,858 6,460,402 7,889,840 9,279, 88 3,185,603 2,235,774 3,647,987 8,060,112 6,472,238 7,884,362 8,289, 88 3,185,603 2,235,863 3,647,987 8,060,112 6,472,238 7,884,362 8,289, 88 3,185,603 2,235,863 3,647,987 7,22,286 823,816 1,170,274 1,379, 88 4,252 4,252 4,252 4,252 4,252 4,252 4,252 4,252 4,252 <td< td=""><td>HIL-T-6134</td><td>47, 138</td><td>47,138</td><td>47, 138</td><td>47, 136</td><td>47,138</td><td>47,138</td><td>47, 138</td></td<>	HIL-T-6134	47, 138	47,138	47, 138	47, 136	47,138	47,138	47, 138
3 135 168 274 380 487 563 37 63,601 62,310 101,664 141,316 180,371 219,724 259, 65 578,742 664,883 616,782 678,731 720,670 772,639 824,079 8 7,048,163 6,011,765 9,628,412 13,238,038 16,882,703 29,468,348 24,079 38 2,589,663 2,231,774 3,641,315 6,050,888 6,460,402 7,888,840 9,278 38 2,589,663 2,235,863 3,641,315 6,050,888 6,460,402 7,884,382 8,286 38 3,138,603 2,235,863 3,641,863 751,071 860,112 6,472,236 7,884,382 8,286 58 390,487 319,137 820,687 722,258 823,616 1,170,274 1,322 6 4,252 4,252 4,252 4,252 4,252 4,252 4,252 12,864,448 11,287,384 16,432,882 7,502,882	HIL-T-83193	95,951,078	EB, 737, 703	144,782,583	200,827,433	256, 872, 239	312,917,183	368,982,029
37 B3,8C1 62,310 101,864 141,316 180,371 214,724 250, 65 28,1742 684,853 616,782 678,731 720,870 772,809 824,076, 66 28,183 6,011,785 9,625,412 13,238,038 16,882,703 20,466,348 24,076, 38 2,899,803 2,231,774 3,841,315 b,050,858 6,480,402 7,884,382 9,289, 65 35,155,803 2,235,883 3,641,315 B,050,858 6,480,402 7,884,382 9,289, 65 35,155,803 2,235,883 3,641,315 B,050,858 6,480,402 7,884,382 9,289, 65 350,487,867 8,060,112 8,400,402 7,884,382 9,289, 65 350,487,867 850,687 752,258 823,883 1,170,274 1,325,378 86 4,252 4,252 4,252 4,252 4,252 4,252 4,252 12,884,448 11,287,384 18,432,882 18,432,882 12,252,703,783	MIL-T-8363	185	188	274	380	487	593	900
CS 678,742 584,853 618,782 678,731 720,670 772,609 824,079 8 7,048,183 6,011,765 9,628,412 13,239,058 16,682,703 27,468,348 24,079, 66 241 281 281 281 281 281 281 38 2,589,603 2,231,774 3,641,315 6,050,858 6,400,402 7,884,382 9,288, 65 3,155,603 2,235,883 3,641,315 6,050,858 6,472,238 7,884,382 9,288, 65 300,497 331,888 641,489 751,071 880,673 1,70,274 1,326, 8 4,252 4,282 <th< td=""><td>HIL-W-17337</td><td>53,801</td><td>62,310</td><td>101,664</td><td>141, 518</td><td>180,371</td><td>219,724</td><td>259,080</td></th<>	HIL-W-17337	53,801	62,310	101,664	141, 518	180,371	219,724	259,080
65 7,048,183 6,011,785 9,826,412 13,238,058 16,882,703 20,468,348 24,079, 38 2,589,683 2,231,774 3,841,315 b,050,858 6,480,402 7,889,840 9,278, 68 3,185,603 2,235,883 3,847,887 5,080,112 6,412,238 7,884,382 8,288, 65 396,507 331,868 641,489 751,071 880,673 1,170,274 1,378, 8 4,252<	MIL-W-27265	579,742	584,853	616,792	658,731	720, 670	772,809	824,548
66 281 281 281 281 281 38 2,231,774 3,641,315 b,050,858 6,480,402 7,888,840 9,278,883 68 3,155,603 2,235,883 3,647,867 6,060,112 6,472,238 7,884,382 9,283,883 65 391,658 841,489 751,071 880,673 1,170,274 1,378,883 86 4,252 4,252 4,252 4,252 4,252 4,252 12,894,445 11,297,395 18,432,592 28,597,788 32,702,883 59,835,176 46,212,702,883	MIL-W-4088	7,049,183	8,011,785	9,628,412	13,238,058	16,882,703	20,468,348	24,079,997
38 2,539,603 2,231,774 3,647,987 6,050,858 6,472,236 7,884,382 9,293,85 85 3,155,603 2,235,883 3,647,987 5,060,112 6,472,236 7,884,382 9,293,85 85 395,507 331,868 641,489 751,071 880,673 1,170,274 1,379,25 85 350,497 319,137 520,687 722,258 923,818 1,125,378 1,325,4 8 4,252 4,252 4,252 4,252 4,252 4,252 4,252 4,252 12,894,445 11,297,395 18,432,892 25,702,883 32,702,883 39,836,176 46,873,872	MIL-Y-43568	2a1	291	291	291	291	291	281
3,155,603 2,235,883 3,647,967 5,080,112 6,472,236 7,884,382 8,283, 355,507 331,868 641,489 751,071 580,673 1,170,274 1,378, 350,487 319,137 520,697 722,258 923,818 1,125,378 1,328, 4,252	MIL-W-43838	2,599,803	2,231,774	3,641,315	b,050,858	6,480,402	7,889,940	9,279,484
65 396,607 331,868 641,489 751,071 880,673 1,170,274 1,379, 68 320,487 319,137 620,697 722,258 923,818 1,125,378 1,326, 8 4,252 4,252 4,252 4,252 4,252 4,252 4,252 4,252 12,894,445 11,297,395 18,432,592 32,702,983 39,835,176 46,873,	HIL-W-4368	3, 135, 603	2,235,863	3,647,967	B, 080, 112	6, 472, 238	7,884,382	9,293,488
88 320,487 319,137 520,597 722,258 923,818 1,125,378 1,325, 8 4,252 4,252 4,252 4,252 4,252 4,252 4,252 1,25,883 176 46,873,	MIL-W-43855	388, 507	331,868	641,489	751,071	860,673	1, 170, 274	1,379,874
8 4,252 4,25	MIL-W-43888	380, 497		520,697	722,258	923,818	1, 125, 378	1,328,938
12,884,445 11,297,395 t8,432,592 35,587,788 32,702,983 39,838,178	MIL-W-5038	4,252	4,252	4, 252	4,252	4,252	4,252	4,252
	MIL-W-630	12,894,445	11,297,395	18,432,592	25, 587, 788	32,702,983	39,838,178	48,873,376

		SCEN	SCENARIO D		DATE 01/13/83	PAGE 43
SCENARIO A	X+0	M+12	N+19	M+24	0€+¥	M+30
10,858	10,858	10,058	10, 868	10,858	10,858	10, 888
670,408	806, 580	624, 163	1, 144, 163	1, 483, 466	1,782,768	2,102,069
489,447	325, 763	401,224	476,686	552, 147	627,608	703,069
3,049,890	3, 198, 539	5,215,408	7,234,272	9, 253, 139	11,272,008	13,280,872
383	393	383	393	393	363	393
611,340	630,415	865,416	1,200,414	1,535,414	1,870,414	2,206,412
9,072	\]	3,306	4, 665	5, 864	7,144	8,424
098'C	191	348	341	987	631	627
1,220,304	672,677	1,556,007	2,201,317	2,815,642	3,429,883	4,044,288
22,643	17,671	20,632	38,993	61, 154	62,317	73,476
1,023,636	820,631	1,338,762	1,556,802	2,376,222	2,883,454	3,411,663
183,200	182,836	298,478	414,013	629,662	645,091	760,628
154,200	38,741	63,208	17,677	112,145	. 136, 612	181,080
1.419.410	1,237,016	2,019,756	2,601,600	3,663,441	4,365,283	8, 147, 124
52, 494	44,717	72, 959	101,201	128,443	157,665	168,927
1,116,073,244	1,262,747,090	2,060,271,672	2,867,798,053	3,655,320,536	4, 462, 845, 012	B, 250, 369, 495
34, 253, 864	37, 546, 221	61,259,630	84,873,033	108,688,438	132, 399, 642	156, 113, 248

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V-T-20B	1,201,603,662	1,042,215,653	1,700,457,123	2,358,698,598	3,010,840,066	3,675,181,629	4,333,422,885
V-T-295	461,308,713	435,856,262	700, 527, 595	865,398,830	1,230,270,267	1, 495, 141, 599	1,760,012,832
V-T-301	3,408,780	2,845,909	4,643,328	6,440,742	6,238,168	10,035,575	11,832,901
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APPENDIX H. STUDY END-ITEM QUANTITIES DEMANDED BY SCENARIO

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H+30	431.574	107,000 107,000	105.034	895,854	15,241	56,414	179.788	56, 153	179.768	929.454	101,021	64.083	343,684	7.470	9.751	808.6	15,714	14,857	113,604	17,283	6.047	718.607	109,625	2,813,029	10.687	55,714	1.01	700'07	11 15		110.342		351,010	606.145	1.085.176	_	7	9	٠,	2	٠,	28	۳,	# * *	8	57	8	218,797	7
M+24	791 228		699.211	895,211	15, 429	58.346	161,252	560,088	161.252	932,823	162, 879	000 THE	337.700	1127	8.625	9.610	16,056		110, 784	12,018	6.640	715.480	108,930	2, 893, 225	10.414	54,240	790 (F)			10.00	101. 3.00 101. 3.00	474	1000	622, 633	1,054,447			615,784	633,670	712,650	31,038	26,113	307,586	393,784	5, 604, 188	63,437	241, 155	214,348	386,317
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482B	1.488	1.110	1.041	1.105			-	1966
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	DES4071	78.30	i		8,302	•	6.861	9,183	1
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40 24<		1434988	101.00	75,692	83,228	91,844	98.270	97.708	•	1744
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	52848/A 529149A	13,728	7,314	8,888	9,740	10, 123		. 0	2412
		11,412	,	16,078	18,656	_	-		2420
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	\$40128E	8	_7	9,756	-	Ξ		2	2491
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	543828	117,780	64,895	70,329	76, 140	79			2815
	S43628A	252.936	142,390	154,317	167,070	-	7.0		2826
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	T1110E	000	351	377	403	423	420	436	2887
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	1418130	3.800	ĸ.	2,434	2.787	2.890	0	3,197	3321
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SPECIFICA-	PILE			SCENARIO C	2 01		20/51/10 91W	LAME	
TION NUMBER	MAR	SCENARIO A	•	M+12	# # # # # # # # # # # # # # # # # # #	M+24			25
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	187020	107 101	14 0 15	77 77	/80	8	960	703	3601
	T17031A	225.456	121,083	207. FF	14,833	17.88	14.781	14,671	3818
	187067	230,772	107	D	130.013	130, 471	120,664	130,381	3638
	0176111	192 391	366 446	137,780	130, 580	137,046	136,08	130,022	3886
	U43262B	504.040	224,000		414,427	430,810	433,760	146.087	3666
	VP3560	261,660	134 244	227.207	408, 780	420.523	435.150	450,063	3610
	V437078	2.040	1 544	226-7	103,186	165, 465	167, 121	171,084	3822
			,		778	1.8.1	4,833	1.600	3611
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	N+24	1.027,731	10.084	1,888,501	1,668,501	25,803	109,583	319,827	105,324	319,827	1, 883, 939	1.927,737	125, 283	870,280	17,018	*E0. /	750777	24,473	-	• •	•	6,247,203	•			1.080		971,512	1, 158,639	1, 190, 270	1,328,253		617 693	676.456	10,817,852	140,908	452, 362	483,408	749, 110		
3	M+18	803.438	6.872	1,304,485	1,304,485	20, 173	85,658	250,047	82.344	250,047	1,3(8,534	1,607,140	97,925	524,022	14.00		1001	18, 133	7		157, 253		5.33	76	2 K	1.548.479	159	759,548	804,282	930,575	1,036,452	38 074	461.673	528,866	0,457,671	110, 184	353,665	362,302	565,686		
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SPECIFICA-	TION PARTIER	DDD-L-20																	1			1				-	ì			1	_	~	1		Î			ľ	_	•	

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T41810F 6,052 4,324 7,055 9,765 12,516 15 T41812F 386 3,207 8,333 7,259 9,265 1,114 T41812F 300 3,500 3,207 8,333 7,744,830 2,231,887 2,718 T43492B 1,488 1,286 2,071 2,273 3,565 3,518 4,114 1,144 1,114 1,114 T43492B 1,488 1,286 2,071 2,273 1,144 30 3,675 4,144 1,144<	T41810F T41812F T43217F T43217F T434928 T436548 T4047 T82152A T82152A		4,814	7,154	10,184	13,934	16,874
T41812F 396 42 68 95 121 T41813D 3,600 3,207 5,233 7,259 9,285 11 T43217F 802,532 77,015 1,285 2,071 2,373 7,44,830 2,231 87,18 44 44 44 48 1,114 48 1,114 48 1,114 8,410,78 8,709 87,092 108	T41812F T41813D T43217F T434928 T436548 T436548 T436548 T82152A T82152A	5.052	4,324	7,055	9.785	12,516	15,247
T41813D 3,600 3,207 5,233 7,259 9,265 11 T43217F 802,532 771,015 1,285,67 373 1,744,830 2,231,887 2,718 T43492B 1,488 1,285 2,071 2,373 3,675 4 T43492B 1,488 1,285 2,071 2,373 9,575 1,14 T43492B 50,568 30,088 49,684 66,090 87,092 10,14 T43054K 50,558 43,960 71,725 8,410,767 10,757,253 155 T82152A 284 2,34 35,248 127,253 155 155 T82152A 28,704 21,604 35,248 48,489 127,253 158 T87155 28,704 21,604 35,248 48,486 62,537 73 U17811F 554,364 544,862 62,537 1,87 1,81 U17812B2B 586,080 510,318 1,233 1,477,239 1,78 U17812B2B2B	1418130 143217 1434928 1436978 143694 14047 182694 183385	986	42	68	50	121	
T43217F 802,532 771,015 1,285 2,071 2,873 3,675 4 T434928 1,488 1,285 2,071 2,873 3,675 4 T434976 607,480 316,165 615,846 715,531 815,214 1,114 T434976 507,480 30,086 48,686 61,080 87,092 108 T43044 60,556 43,860 71,725 62,489 127,253 13,105 T82152A 284 234 382 48,881 127,253 127 T8215A 1,116 1,004 1,633 2,273 2,907 3 T8702D 28,704 35,248 48,892 62,837 7 UNTSB1P 554,364 544,862 1,821 1,821 1,821 UNTSB2B 508,080 510,318 832,888 1,233 1,477,232 1,726 VA3707B 2,040 1,813 4,65,529 555,952 3,746 62,537 7,723	1434928 1434928 1436428 144047 16264K 182152A 183385	3,600	3,207	5,233	7,259	9,285	11,310
T43492B 1,488 1,285 2,071 2,273 3,675 1,114 T43497B 507,480 316,165 615,646 715,531 915,214 1,114 T43497B 507,480 30,088 60,080 68,080 100 100 T43497B 50,586 43,960 71,725 50,489 127,253 13,100 T82152A 166 23 71,725 50,489 127,253 13,100 T83385 1,186 1,004 1,638 22,73 2,907 36 T87020 25,704 316,048 862 888,985 1,233,109 1,729 U43262B 508,080 510,319 832,824 468,925 559,537 1,729 VP3560 281,080 510,319 832,825 1,134,832 1,477,232 1,729 VP3560 281,080 510,319 335,802 468,929 559,539 726 VP3560 2804 281,080 281,080 281,080 281,080 281,080	T434928 T434978 T436548 T4047 T6224K T6224K T6224K T62385	802,532	771,015	1,257,973	1,744,830	2,231,887	2,718,844
T434976 607,480 316,165 615,648 715,531 615,214 1,114 T436548 33,350 30,086 49,086 66,080 87,092 106 T44047 3777,372 3716,386 6,083 877 106	1434978 1436548 144047 18264K 182152A 1833395	1	1,285	2,071	2,873	3,675	4,478
T43654B 33,350 30,086 49,086 68,090 87,092 106 T6284K 50,556 43,960 71,725 59,489 127,253 13,105 T62185 1,116 1,004 1,832 2,273 2,907 36 T87020 28,704 21,604 35,248 48,692 62,637 76 U17811F 554,364 544,862 888,985 1,233,109 1,877,232 1,92 U43262B 508,080 510,319 832,825 1,477,232 1,789 VP356D 281,050 205,875 35,902 405,925 1,477,239 1,789 VP356D 281,050 205,875 35,902 405,925 1,477,239 1,789 VP356D 281,050 205,875 35,902 405,925 5,955,955 725 VP356D 2,040 1,915 3,33 4,333 8,542 6	1436548 144047 16224K 1821524 183155 183155		318, 165	815,646	715,531	915,214	1,114,890
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T82152A 264 234 382 530 678 T83385 1,118 1,004 1,633 2,273 2,907 36 T87020 25,704 21,604 35,248 46,892 62,637 76 U17802B 554,364 564,862 560,319 632,625 1,71,23 1,729 VP35GD 281,660 510,319 632,625 1,174 1,725 1,726 VP35GD 281,660 205,875 335,902 465,929 555,555 726 VP35GD 2,040 1,915 3,124 4,333 8,542 6	T82152A T83385	50,558	43,960	71,728	99,489	127,253	155,018
T87385 1,16 1,004 1,638 2,273 2,907 3 T87020 25,704 21,604 35,248 46,692 62,637 76 U17811F 554,364 544,862 868,985 1,233,109 1,577,232 1,821 U43262B 508,080 510,319 802,625 1,154 932 1,477,239 1,789 VP3560 281,660 205,875 355,902 465,929 595,955 726 V43707B 2,040 1,915 3,124 4,333 8,542 6	183385	264	234	382	530	678	827
T87020 25,704 21,604 35,248 46,692 62,537 76 U17811F 554,364 544,862 888,985 1,233,109 1,577,232 1,821 U432628 508,080 510,319 832,625 1,154,932 1,477,239 1,789 VP3560 281,660 205,875 335,902 465,929 595,955 726 V437078 2,040 1,915 3,124 4,333 8,542 6	ACOURT.	1,118	1,004	1,633	2,273	2,907	3,541
U17811F 554,364 544,862 888,985 1,233,109 1,577,232 1,921 U43262 508,080 510,319 832,825 1,154,832 1,477,239 1,789 VP3560 281,860 205,875 335,902 4,65,929 595,955 726 V437078 2,040 1,915 3,124 4,333 8,542 6,542 6		25,704	21,604	35,248	48,892	62,537	16, 181
U432628 508,080 \$10,319 \$12,625 \$1,789 VP3560 \$261,060 \$205,875 \$335,902 \$465,929 \$595,955 \$726 V43707B \$2,040 \$1,915 \$3,124 \$4,333 \$5,542 \$6	UIJBIIF	554,364	544, 862	888,985	1,233,109		1,921,355
VP3580 281,860 205,875 335,902 465,929 595,955 726 V437078 2,040 1,915 3,124 4,333 8,542 6	U43282B	508,080	510,319	832,625	1, 154, 932	•	1,789,545
V43707B 2,040 1,915 3,124 4,333 5,542	VP3560	281,860	205,875	335, 902	465,929	٠ا	725,982
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	1A10100 - 25- 1-000	117 998 87	80 348 090	133 113	113 626 678	148,720,189	177, 513, 655

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APPENDIX I DEMAND FUNCTION DERIVATION

SECTION I: TOTAL DEMAND

Total demand for a component over a six-month study period is represented by:

$$D_{T} = \sum_{i=1}^{6} d_{i} + r_{i}d_{i} \quad (0_{r} = d_{1}+r_{1}d_{i}+d_{2}+r_{2}d_{2}+...+d_{6}+r_{6}d_{6})$$

where

 D_{τ} = total demand for the six month period

d; = normal demand for month i

r = combat replacement percentage for month i

replacement

4 vs

However, our HOB factor, which represents monthly replacement requirements as a percentage of demand, is constant. I.E., $r_1 = r_2 = r_3 = r_4 = r_5 = r_6 = MOB$. Therefore,

Letting the sum of the normal monthly demands for the six-month period $\sum_{i=1}^6$ be represented by $\mathbf{D}_{\mathbf{p}}$, we now have:

 $\mathbf{D}_{\mathbf{p}}$ represents normal 6 month demand for all the services combined, i.e.,

$$0_p = 0_{pa} + 0_{pf} + 0_{pn} + 0_{pm} + 0_{pc}$$
,

Where

D ... * Army demand

Dof = Air Force demand

Don - Navy demand

Dom - Marine demand

Dpc = Coast Guard demand

Therefore,

$$0_T = 0_p + MOS 0_p$$

- = 0_{pa}+0_{pf}+0_{pn}+0_{pm}+0_{pc}+MOB(0_{pa}+0_{pf}+0_{pn}+0_{pm}+0_{pc})
- = 0_{pa}+0_{pf}+0_{pn}+0_{pm}+0_{pc}+

MOB - D_{pa} +MOB · O_{pf} +MOB · O_{pn} +MOB · O_{pm} +MOB · O_{pc}

=
$$D_{pa}$$
 + $MOB \cdot D_{pa}$ + $(=D_A)$

$$0_{pf} + MOB \cdot 0_{pf} + (*0_{F})$$

In other words, total demand for the six-month period is the sum or the individual demands for each of the services during the period, i.e., $D_T = D_A + D_F + D_N + D_M + D_C$. Individual demand for a given service (i.e., D_F) is the sum of the normal demand for that service (D_{pf}) and the and the combat replacement quantity required (MOS D_{pf}) based on that demand.

NOTES:

- Normal demand includes both new issues and normal replacement (wear and tear, loss, etc.) requirements.
- MOB is assumed to represent combat <u>replacement</u> requirements, not combat <u>loss</u> percentage. Combat replacements are always higher than combat losses, because a percentage of the replacements will also be lost. If I equals the combat loss percentage and R equals the replacement requirements, then $R = \frac{1}{1-L} 1$. For example, if combat losses are 15%, then replacement allowances must be 17.6% of the original required supply.
- MOB has only been made available as a constant factor by component item. However, the formulas developed are easily modifiable if it is found to be desirable to vary the replacement factory by service or time period.

SECTION II: SERVICE DEMAND

For a given service(s), the six-month normal demand \mathbf{D}_{ps} shown in the previous section can be calculated by:

$$0_{ps} = \sum_{j=1}^{n} q_{j}$$

Where

q; * quantity demand at issue number i during the period

n = number of issues in the period.

Further, q can be calculated by:

Where

n, = number of units issued per person at issue i

p; = percent of service strength receiving the item at issue i

s; = service size at issue i

Therefore,

$$\rho_{ps} = \sum_{i=1}^{n} n_i \rho_i s_i$$

The above formula requires the availability of figures for each individua! issue during the given six-month study period. However, the only data currently available is:

Current annual peacetime demand for all services combined

- Current base service strength for each service
- Projected service strength relative to base at the end of each six-month period.

Therefore, the following assumptions must be made in order to approximate expected demand with any degree of accuracy. Modifications to these assumptions will produce different results than those achieved.

- Demand is spread evenly across the year.
- Issue periods can be presumed to be "monthly" for demand smoothing purposes (because of monthly MOB factor).
- Demand increases linearly with growth in service strength.
- Demand is spread evenly across all services receiving the item according to relative service strength.
- Mobilization does not create an additional demand relative to peacetime other than that resulting from increased service strength.
- Growth (or decrease) in service strength is linear throughout a given six-month period.

Based on the above assumptions, the six-month service normal demand formula $D_{ps} = \sum_{i=1}^{n} n_i p_i s_i$ can be re-evaluated and restated. The combination of the

factors $(n_i p_i)$ give one factor representing "demand units relative to service strength." Because demand is now assumed to be spread evenly across the year, the number of units given to each person at an issue (n_i) and the percent of service strength receiving the item at an issue (p_i) will be constant. The combination "demand factor" will therefore also be constant. Because a monthly issue period is assumed, the factor can be labeled "monthly demand units relative to service strength." and the formular recalculated as follows:

$$D_{ps} = \sum_{i=1}^{6} n_{i} p_{i} s_{i}$$

$$= \sum_{i=1}^{6} f_{i} s_{i} \qquad f_{i} = n_{i} p_{i}$$

$$= \sum_{i=1}^{6} f_{i} s_{i} \qquad f_{i} = 2^{4} f_{3} \cdots = f_{6} = f \text{ "monthly demand factor"}$$

$$= f_{i=1}^{6} s_{i} \qquad f_{i} = 2^{4} f_{3} \cdots = f_{6} = f \text{ "monthly demand factor"}$$

The "monthly demand units relative to service strength" can be calculated from the available figures for total annual demand and relative base service strengths. Having identified all services receiving the item, it is assumed as stated above that demand is spread evenly across all services receiving the item according to relative service strength. For example, for an item received by all services,

Where

 S_{T} = total strength of all services receiving the item

 S_A * base Army strength

: = etc.

For an item received only by the Air Force and Army,

The relative percent of use by a given service S is represented by:

$$R_S = S_S/S_T$$

The portion of the annual demand is therefore $\theta_S=\Re_S(A)$ where A is the current total annual demand.

Annual demand units relative to service strength can now be represented by:

To arrive at a monthly figure, the yearly figure is simply divided by twelve.

In order to convert the six month service normal demand formula into something more easily calculatable from the figures available, the following relationship can be derived.

$$0_{ps} = f \sum_{i=1}^{6} s_i$$

- Monthly demand unit factor * Sum of service sizes at each
 month
- Six-month demand unit factor * Average service size during six-month period

= 6f
$$\left(\sum_{i=1}^{6} s_i / 6\right)$$

Note that the "six-month demand units as a percent of service strengths" is simply half the annual figure, or six times the monthly figure.

For computing the average service size during the six month period, the fitures available are the service size relative to service base at the end of each six-month period. The most straightforward way to compute average service size in a six month period is therefore to calculate average size growth relative to the ending size for the previous six months, and then multiply this factor by the previous ending size to arrive at the average size.

Because growth factors relative to base are given as $\underline{\text{factors}}$, not percentages (i.e., 1.02 not 102), the relative size from the $\underline{\text{end}}$ of one period to the $\underline{\text{end}}$ of the next is given by:

$$M_{S}/M_{O} - 1$$

Where

 $\mathbf{M}_{\underline{1}}$ is the size factor relative to base at end of the current sixmonth period.

 M_{0} is the size factor relative to base at end of the previous six-month period.

Because growth (or decrease) is assumed to be linear, the <u>average</u> relative size from one period to the next is:

$$7/12 (M_1/M_0 - 1).$$

The ending size of the previous period is:

Where S_{ς} is the base service strength.

The average size in the current period is therefore the ending previous size plus the average relative size increase (or decrease), i.e.,

Avg. size =
$$(S_S \cdot M_0) + 7/12 (M_1/M_0 - 1) \cdot (S_S \cdot M_0)$$

= $S_S \cdot M_0 \left[1 + 7/12 (M_1/M_0 - 1) \right]$

Therefore

$$D_{pS} = 6f \cdot S_{S} \cdot M_{O} \left[1 + 7/12 \left(M_{1}/M_{O} - 1 \right) \right]$$
$$= \frac{AFS}{2} \cdot S_{S} \cdot M_{O} \left[1 + 7/12 \left(M_{1}/M_{O} - 1 \right) \right]$$

SECTION III: SUMMARIZATION OF FORMULAS

Normal six-month demand for a service:

$$0_{ps} = \frac{AFs}{2} \cdot S_S \cdot M_0 \cdot \left[1 + 7/12 \left(M_1/M_0 - 1\right)\right]$$

Total six-month demand for a service:

Total demand for all services:

SECTION IV: COMPUTER CALCULATIONS

In order to facilitate the computer calculations, the annual demand units factor (AF_S) was factored out of the equation and applied last. The following formula

was actually calculated as

The formula was then calculated as follows:

This was done for each service, then summed to obtain a grand total.

The growth factors, annual demand, start strength and MOB were all given figures.

AF_S, shown as "percent of strength receiving items" was calculated in another routine based on the formulas shown in this appendix, and entered into this routine. The figures shown are the <u>yearly</u>" unit demand relative to service strength" factors.

APPENDIX J

MILITARY TEXTILE DEMANUS MAXIMUM STRENGTH REQUIREMENTS GENERAL CATEGORIES

(In Millions)

Category	Measure	Peacetime	Scenario B	Scenario <u>C</u>	Scenario D
Broadwovens	ESY	145.39	449.18	240.40	750.20
Narrow Fabrics	LY	112.08	373.33	207.64	729,63
Knits	ESY	21.07	81.83	43.83	167.68
Non-wovens	ESY	.14	.47	.24	.76
Thread	LY	12,050.64	38,580.54	20,132.40	57,216.98

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	SCENARIO A	240	M112	Z + X	M+24	06+1	M+36
CC-C-467		312	458	530	547	•	
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7		2,764,489	4.045,637	4,710,107	4,954,462	4.77	4,027,47
7		÷	å	29	7	347.01	ż
CCC-C-428						•	
CCC-C-428	1,021,623	739,484	1.081,278	1, 260, 994	32	320,72	314
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CCC-C-432	38	25,	36	~	7	48	40,40
•	3,778,132	۲.	~				
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CCC-C-440	7,583	10	_	_	Ŧ	9	_
CCC-C-441	821			•		1	7
CCC-C-448	ä	6		2.68		20	~
CCC-C-461		38	35	88 49	a	0.19	025
CCC-C-467	2.821.680	2 128 978	3 131 448	27	3 807 447	3 783 640	1 750 1
CCC-C-478	_		~	2 84	}	•	
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LFF-DE343-13		3	9	27	653, 536	5	651, 18
LPP-0ES32-75	200	544,654	2	922,57	9	954	948,46
MIL-C-10176		888	97.	78	1.608.098	831,	1.679.9
MIL-C-10298	512,	6	.057	. 921, 70	. 27(280	240.
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MIL-C-10859		54	409	8 19 84	10	972	959
M1L-C-11065	958	705	0.18	192 91	28	281	255
MIL-C-12095	024	88	162	350 07	9	380	389
MIL-C-12189	068	565	780	245.27	52	498	466
MIL-C-12389	580	138	702	66	2 058 172	ia	2 018 47
MIL-C-15062	=	45	88	78.48	•	2	9
MIL-C-16290	330, 335	220 508		72	416 328	15.67	7,427
M1L-C-16375	2.5	1	a	3	83 403		9
MIL-C-18387	190,551	147,273	218.554	2	258.443	255.210	251.24
MIL-C-19002	625	804		5	1 005	-	56
MIL-C-19699	2.651		2.827	7	0.870	•	•
MIL-C-19759	953,300	•	~	2	1, 197, 054	•	0
NIL-C-20696		2	6	100	27.958	•	27
MIL-C-21115			Ö	8	7.883.428	•	_
MIL-C-2184	w.	•	5	12,05	-	12	=
MIL-C-21852	264, 737	178,543	250,889	302.110	329 653	334.258	335, 14
-C-218	•	•	ā		403 600	•	9
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1, 12, 12, 12, 12, 12, 12, 12, 12, 12,	MIL-C-29127		874 128		897. Z08	99	-	58.7
120 230	MIL-C-29137	7.975	6 737	-	7/8/008	e i		1,080,47
8.00 278	MIL-C-29147	695,011				ָ	10,473	0
800, 430 801, 430 802, 430 803, 4	MIL-C-20363	230,278	192.212		230,000	٠,	816, 731	17.0
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18	MIL-C-43181	0,316,273	7	6,435,995	7, 552, 134	8.004.827	•	
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1, 241, 741	MIL-C-43704	711		8.48	7.413	7,665		7.4
1,241,704 158,229 238,286 1,660,063 1,757,807 1,759,2 21,216 17,729 23,230 28,339 27,723 27,3 23,040 17,148 28,249 28,172 30,122 29,7 1,856,573 8,234,787 12,072,802 13,848,728 172 30,122 29,7 4,085,171 2,873,256 1,183,833 4,882,117 8,180,429 8,147 117	227-10-10-2	100.07		7.75	81.073	67,302	•	77.4
1,241,741 980,879 1,416,586 1,660,093 1,757,607 1,758,2 21,216 115,797 23,230 26,839 27,723 27,3 23,040 17,148 25,249 29,172 30,122 29,7 1,856,673 8,234,787 12,072,602 13,848,728 14,525,614 14,431,7 4,095,171 2,873,256 3,183,633 4,892,117 6,160,429 8,147 8,160,429	7 100 T 100	807.45		8,29	276,500	287, 372	84.3	è
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1,856,673 8,234,787 12,072,602 13,846,728 14,555,814 (4,431,744,085,171 2,873,256 1,163,633 4,892,117 8,160,429 8,147 8	711-1-1004-V	21,216	18, 797	3,23	26, 839	27,723	27.3	õ
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	M11 -C-43630	3	2.6/3,250		417 COT 7			

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TION NUMBER	SCENARIO A	X+0	H+12	M+10	M+24	M+30	M+38
MIL-C-43882	3,271,583	6	088	¥		4.0	li
MIL-C-44031	26,595,592	22, 581, 759	32,702,883	38, 354, 744		1, 200, 518 47, 644, 584	1, 232, 53
411-C-44034	7.842	8,701	ĸ				
24C+4-1-14E	700,000	105, 570	•		100	,,	Ġ
11 7 7 1000	831,117	1,050,241	7	1,818,780	1.893.923	1.877.847	ĕ
787-0-117	458,172 450, 6	214,408	•		376.320	371,699	
11-0-10	4.612.460	1,824,022	w.	3,047,938	3,256,340	28	23
11 -C-K12K1	202 / 202	1,080,404	1,583,808	1.04	1,929,034	~	-
IL-C-7020	020.024		279,983	32	347,672	5	3
IL-C-7219	100000000000000000000000000000000000000	205, 302,	1,070,403	1.07	1,071,307	6	8
11-0-1350	A 100 A	B 475 BEG	1,250,722	1.47	1,557,488	1,659,068	1,552,36
IIL-C-81814	165, 123	108 283	027,020,7	•	8, 437, 188	6,445,695	Ŧ
IL-C-82252	34.001	28 924	**************************************			191,271	188, 75
IIL-C-823	2.344,674	3.882.435	9	A EQ.	200	53,988	2
IL-C-83429	967,698	114	1.197.388	-	/1000.4 400.404	+39. +01. /	7,285,70
IIIC-13450	52,999	33,950	•		9	1,411,148	
IIL-C-87052	933,444	3, 145, 583	4,381,231	6.387,999	6 P92 277	A 133 186	
11 7 - 4.55	ŀ	115	168,719	195.399	208.941	207 173	
	255, 808, 828	65,341,387	84,878,891	98,068,515	100.118.891	87 802 724	PR 411 212
		25,957		7.	18	45.873	
**TOTAL	- 200 - CAC		3.711,224	4,460,154	4.757,	4,713,554	4.736 418
	401, 303, 213	. DO 01 7 04	001 880 88*	206, 232, 769	349,717,630	317,839,048	-314,638,002
SA-C-1000	382.020	è		528 (281, COS	, 475, 1010	322,622,602	319, 353, 990
KSA-K-1000	8.407.649	1 1	40 589 720 10 589 820	00	273	273,830	272.
SA-K-2000	629.221	9	781 180	14,030,468	mit	12, 782, 694	•
SA-K-3000	1,668,959	1.353.608	1,953,734	i a		835,611	٠,
SA-K-4000	64,671	47,372	68,374	ic	807 'C74 'Y	7,428,061	., ı
SA-K-5000	665	422	581	1		//8 79	20,42
SA-K-6000	18,021	11.844	17 184	487 06	•	•	
A-K-8000	11, 374	0,173	11.798	13 828	317.77	X1.218	20,883
SA-K-800	1		1 543	1 785	řÌŦ	٠.	
SA-Y-1000	1,514,817,600		1, 473, 364, 933	1.727.635.732	1.037	986	- :
A-Y-2000	15, 143, 226	2		25, 906, 398	27.588.088	27 832 : 71	27 KRR 306
DD-0F5 12-80	20°, 10°,		105, 183	123, 280	130	130	130
11 -C-12 15K	201,101		37,002	42.753	44,265	43,725	43.672
1 -C- 17 157	907 177	2	755, 931	913,848	1,007,881	1,028,625	034.7
IL-C-3735	4 138 544		1,567,152	1,843,058	1.041.714	1,937,647	1,017,110
MIL-C-40004	25, 236		018.878.4 408.46	9,356,315	6,728,435	5 , 760, 340	.741.8
IL-C-41831	21,402		367.26	200 000	30, 546	30,580	30,440
IL-C-43247	109,753	84.007	121.57	140.00	130 TO	34,700	35, 160
IL-C-43352	6,170	-	2.434	2 2 2 2	30° - 10° -	150, 100	146,384
L-C-43358	175, 107	139,881	100,393	233,850	247 861	2 4 C C C C C C C C C C C C C C C C C C	287.276
L-C-43824	18,238	=	21,044	24,328	25, 142	24.138	24
000000000000000000000000000000000000000	1,650,263	•	10, 738, 420	12,407,183	12,920,458	12.838.776	12, 756, 797
MIL-C-42938	200, 755	63 (377,476	436, 131	w	431,950	428 762
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SPECIFICA-			***************************************	ENAKIO E			
TION NUMBER	SCENARIO A	2 +0	M+12	M+10	N+24	M+30	M+30
•			322,737	-	ANC 001	401	•
7 P	8,070,255,420	7,257,771,240	19,487, 111, 714	3	13.149.589.229	9	(5)
	•	2, 437.	17,649,421	7	2 101.	2.340	22, 308, 6
? 6	3 1	3.626.	49, 883, 438	57,945,530	60,435,336	59,938,415	59,650,6
3 i =	ni.	7017	110, 530, 619	3	3,914,	2,984	131, 104, 4
	9	157.		28	282	282	201.0
	1,050,540,108	502	2,382,762,263	ë	9,457.	7.093	3,088,685,8
	39, 181, OB	301	52, 470, 1	2	217	65,384	85.274.2
	1, 203, 730, 792	654,	1,321,087,736	Ξ	32, 250	5.605	1.622.191.4
	478,604,625	=======================================	67,306.0	è	993	703.819	700 827 2
	10,048,052	980	53, 372, 666	7	85,338	25.0	A COR AD
	62,388,400	476.	56, 283, 331	74	72.409.359	73,741,473	7 601 66
**TOTAL	1, 774, 725, 933	10,083, 410, 447	احـ ا	27, 693,	1.1	3,768,0	19, 245, 55%
			H	111120-024-00	£80'128'588'aL	78,884,348,338	8 300 998
-B-8701	-	c	e	400	4	•	•
MIL-C-29365	31.843	28, 86	967.86	44, 439		68,428	
-C-4383	١.	ı]-	4-	916	010 00	7	-
		: -		;	107.87	•	•
**TOTAL	117,440	78 958	100 CT		4 1 1 1 1 1 1 1	- C	C 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
		7				ò	000
C-F-208	1		<u>.</u>	28	•	1,460	4
DDD-L-20	65, 965, 775	64,801,012	79,001,018	92,834,941	68, 533, 869	39	98,955,49
77-L-2004	N.	ò		17,82		18.8	18.8
KK-1-204	444	•	,			•	
KCA-V-7000	797 '61		2	18,071	20, 19	20,208	20,1
KSA-N-4000	FOR GER	<u>, </u>	_:	•	•	623,842	519, 634
KCA-bc-100	247.4	, i	4.71	•	6,270	8,418	6,50
2017	787	-	31, 853	_	37,583	38,720	38,20
1 - C - 42E	0.332	•	9,351	۲.	177.0	779.8	
1 00-0160 1 00-0160	020,020	N (647,816	753, 136	786,476	781,350	ė
WILL D. 13763	757 RR	٦,	9	5	137,249	138, 380	38.
MIL-8-1/13/ MTI-8-1/10/8	200	125	181,387	2	225, 192	225,372	224,37
WTI -8-6 1813	100 TO TO TO TO TO TO TO TO TO TO TO TO TO	ď.		ç	9.773,035	9,775,828	28,
11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	001,101	oł.	27, 195	114, 204	121,693	122, 312	7
MTI -C-1734	704	•	j,	Ŗ,	1,313,528	1,324,218	53,
MII -C-43258	מיץ אשר	٠.	ò٠	•	5.084	B . 201	
WIL-C-13303	200	DIE	184 808	946,228	867,570	986, 354	S
MTL-C-43424	֚֭֭֭֭֭֭֭֭֭֭֭֭֓֞֞֓֓֓֓֟	֡֝֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֡֝֡֓֡֓֡֡֝֡֡֓֡֓֡֝֡֡֡֡	3,288,148	3, 817, 980	7	4,013,804	3,880,78
MIL-C-43878		:	Ď.	30.344	32,020	31,953	
MIL-C-43701	216	200 1010 214 115	974,007	1,600,381	1,684,940	1,696,871	1,689,1
MIL-C-5040	900	200	•	100 BCC 7	74.617		•
MIL-C-7518	2.728.878	2 208 228	3	100.07.4			•
WIL-C-83242	80		G			77 60 7	οĸ
MIL-H-41802	279.250	880,018	•	CON SON	Ĺ		
HIL-L-11075	14.880				•		•
MIL-L-15040	60,960	501,474	722, 339	834,683	010 010	038 889	100 ACA
MIL-L-1870	37,200	`~	. 9		•	;	ir
A101							

				KURT SALMON ASSOCIATES	SOCIATES	DATE	TE 01/15/83	PAGE 6
TYPE	SPECIFICA- TION NUMBER	SCENARIO A	E+0	M+12	M+18	M+24	M+30	M+36
~	MIL-L-40051	47,278	34,205	48,370	57,866	61.287	01.357	=
	MIL-L-40069	A 000	1, 533	2,320	2,651	1	2,742	2,738
	MIL-R-1670	158,000	131.055		228 823	3,307,800	3,545,038	
	MIL-R-17343	1,875,000	467,384	714,533	825,572	2	854	
	MIL-R-20500	4.988.083	1,754,584	2,572,318	2.972.058	3,094,991	3,074,832	
	M1L-S-3577	388,851	281.813	431.813	4.010,4			
	MIL-S-43355	393,928	1,228,592	1,886,812	2, 155,004	2,219,068	2, 180, 448	
	MIL-S-4388	28.773	23,304	34 088	30 848	900		
	HIL-T-40626	300,144	222, 537	330,012	382,364	388, 110	307,700	107,70
	T-C-571	611,340	476,725	703, 454	818,913	852, 493	848,477	841,350
	T-M-603	3,072	2,141	3,063	3,583	3,889	758 C	4, 168
	T-T-871	1.045 844	788 230	228				
	T-T-081	22,643	10.548		20, 400	300,030 300,030	1, 355, 638 30, 00,	1,348,976
	1-T-011	883,572	646,761	845,673	1, 103, 087	1, 159,631	1.156.312	1.181.084
	V-F-108 V-1-81	154,200	36,086					6
	, ,		1,063,238	1,534,66	1,789,220	1, 905, 090	1,808,833	1,897,487
~	** TOTAL	106,711,735	84,572,092	119,885,524	139,287,425	147,299,654	147,628,272	147,547,505
162								
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:				KURT SALMON AS	SSOCIATES	DAT	TE 01/15/83	PAGE 7
				SCENARIO	ပ			
TYPE	TION MUMBER	SCENARIO A	K+6	M+12	M+18	[(+24	M+30	M+38
3	CC-C-487		237	257	28%	707	100	136
-	CCC-C-41	24	_	14,070	14.624	14.578	14.474	•
	614-0-000	3,652	2,098,448		100	22.8	0	1
	CCC-C-428	284	51,7	8	78,	182.7	84.0	189.3
1	CCC-C-428						•	
	627-U-UUU	1,021	556,030	807, 484	665,342	697,087	705,858	729,625
		2,298	60	8,80	_	'n.	o.	
	200-0-00	36	20,2	2.63		9	23, 1	23,5
	857-3-333	3,778	œ	7	-	3.2	2,898,641	9
	CC-C-438	435	•	1,32	œ,	8,	8,80	312,2
-	CCC-C-140	7		78	6	ĸ	m	
				9		349	, (C)	353
	877-2-22	72	45, 116	œÌ	49,897	4.0	50,600	
-	CCC-C-481	798	œ.	Φ.	470, 465	8	72.7	7
	200-0-01	2,821,	8	39,0	1,919,371	2,020,702	2,048,645	ш
	84-5-55			ď	1,474	5.		-
	KSA-8-1000	2		Ю	7,940	8,055	8, 109	
	KSA-C-1100	_	i	ĸ	287	10	284	63
	K5A-C-1200	1,044	un'	ш	2	2.2	591,104	98.4
-	KSA-C-2000	1,603,	720,045	03	5	0	1.011.284	83
	KSA-C-3000	252	ı	140,065	145,518	148,029	145,914	145,895
	KSA-C-4000		4	50		,	900	
-	KSA-C-5000	-	į		1,327	n	1,428	٠.
	KSA-C-8000	152,		127,528	135,638	39,1	139,979	0
	KSA-C-8000	24₹.	ä		217,768	10	224, 902	29.8
	LPP-DES13-80	, C	m]	رم	8,641	9,271	0.474	•
	CPP-0ES18-73	987	ď	91.8	748,774		786, 259	09,2
	LPP-DES23-73	474.	œ`	2,7	328, 184	a	342,E12	52, 5
1	LPP-DES32-75	869	إنخ	7	488,610	6	521, 511	₹.
	MIL-C-10176	1, 105,	90	83	773,144	~	837, 164	73.
	M1L-C-10298	4,512,	2,717,12*	ਨ	3, 158, 403	3,372,389	3,301,886	83.8
	M11-C-10799	12	~	7,691	8,373	2	8,824	8
	M11-C-10859	2,258,	ຕໍ	1,034,888	1 487,601	53,	70,8	20.4
	MIL-C-11068	828	o,	585,653	854,093	20	69.4	83
: !	111111111111111111111111111111111111111	470 L	ni,	645, 317	712,059	750	750,5	786.2
	MIL-C-14168	֖֡֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	1,805,433	2.094,770	2,303,732	2,422,378	2,458,445	w
	MII -C-15062	2 :		780, 788	851, 132	8	9.5	
1	WI -C- 18200	220	, i	*/n) *0	707	41,467		
	MIL -C-18375	,	÷		124,008	77. 78		
	MZL-C-16387	201	:.	1011	7 C C C C C C C C C C C C C C C C C C C	7/0.10		
	WIL-C- 19002		1	1001121	133,100	200		3
	MIL-C-19699	~		4 822	. 32C +	9 6	•	9 2
	MIL -C- 19759	9		101.078		• •		:
: 	HIL-C-20698	21	12	0.	14,260	7	16.15	N.
	MIL-C-21115	4.690	ä	3,410,065	3,781,294	9	4,048,810	
	KIL-C-2134	8	4,904	2.48	6,281	8	6,918	7
	MIL-C-21852	284,	-	'n	158,898	82,6	183,235	
	MIL-C-21881	1,567,	ä		1,020,427	Φ,	1,074,438	÷
!	MIL-C-23928		498	620	528	529	528	4634

				KURT SALMON AS	SOCIATES	DA	TE 01/15/83	PAGE	•
	SPECIFICA-			3	v	•			
TYPE	TION NUMBER	SCENARIO A	X+0	M+12	M+18	H+24	M+30	N+3	•
•	L-C-2911		0.4	R1	*	9	•		2
	-C			508,385	522,451		523 533		6
	T-C-58		4.3	1	5.2	5.51			5 78
	L-C-28		94, 18	0.	 	4,79	-	*	9
	اد		23,80	6	4	10,0	•	-	3,20
	MIL-C-297	801,838	322, 255	369, 498	408,808	423,339	434,512	-	48,311
	ے د		41,85			7.4	O D 1	7.	8
	٤	2	28/ 12		-	77 97	ויכיו	7	C :
	2 5	קר	7/G' / G	3.31	- ·	9.8	•		=
	MIL-C-342		2, 181, 456	0	2,412,010	2,450,175	2,460,693	2.5	02,722
	io		0/0	3	9/9	78	- !!		78
	9 5		701 . 177 . 1	4 6	567, 580, T	5,26	39 T	1.7	89.87
	Ø		100 m	20.00 60.00	47.47.4	, d	7 6		
	MIL-C-3924	2,232,928	1.273.918	1 380 835	1 498 854	F83 295	F76 187	•	77 . Y.
	5	_	1.025	0	£ 025		. "	:	
	MIL-C-40039		2.978	3,221	3,548		. "		3 8 9 5
	MIL-C-41808		23.228	1	27, 973	9	110		SO RIA
	MIL-C-41820		317.378	6	410,452	30.00		•	70.07
	MIL-C-4277		131,239	23	131, 239	31.23		-	20,00
	MIL-C-43122		136,208	1	200	יייי ווניז	- 1100		71.634
	MIL-C-43128		240.015	2	288.764	00			. 6
	MIL-C-43191		3,440,484	_	4.015,644		, .	4	0.23
1 (MIL-C-43204		94,842	1807	113,005	6,03		-	30.
54	HIL-C-43234		31,878	=	37,447	38,92	8		0, 45
	MIL-C-43251	793,268	381,983	8	487,353	80 7 E		1 0	58, 12
	MIL-C-433/8	77.	102,829	-	120,850	123, 48	2		30,40
	M11.10.45400	, 200	2,660,082	828,3	2,939,104	.978,83	8	n	6.27
	111-0-13476		202 606		1,634,598	21' 18 54' 45	- K	7,1	87. 10.1
	MT1 -C-43482	9	707 002		000		ວັເ	- (7.00
	MTL-C-43525	ŝ	404, 404 000,		287,208,1	920.45	5	7	6
	MIL-C-43594		A 1 A 2 B	יור פוני	120 801	1.4 1.4 1.6 1.6			- 10 - 10
	MIL-C-43800	20	33,470	, ,	400 CA	A 0 A	, ,	•	ָ מוש מוש
	MIL-C-43505		492,217	-	100		• •	•	7
	HIL-C-43627		2,722,093	100	3.259.478	3.419.665	, ,	100 100 100	80 584
	MIL-C-43837	105 ,	670,381	 -	785, 109		•	•	
	MIL-C-43875	68,049	34,743	33,684	44, 498	48, 122	49,020		0
	MIL-C-43/18		1, 171,752		1,429,672	8	~		0
	M1L-C-43/34		3.058		13,678	. t	•		15, 323
-	MI -C-43791	ric	20.50	7	7000	A 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•		-
	2	· •	990'/S		188.74	7	7	•	3,67
	MTL-C-43843	; ;	789 608	9 4		5,5	u	- `	D 6
	8	-	200	יוכ זוכ	21, 21	AIC	4:3		
	2	23.040	12, 994		15, 15, 17	3 8	177.01		, c
	8	'n	2.241.578	90	2.593.719	97.28	-		
	192		330, 285	358, 154	380,683	386.131	390 084		100
		'n	510,209	68.0	853, 482	8	=		54.9
	2	595,59	17,274,673	21.3	20, 268, 328	78.9		21.1	98, 799

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	SPECIFICA-			SCENARIO	ن -				
TYPE	TION NUMBE	SCENARIO A	K+6	M+12	M+18	M+24.	M+30	2	36
4	MIL-C-44034	7,842	4.228	4.849	5.114	5.378	•		80
	MIL-C-44043	90,884	77,407	85,800	5.7	101,483	103, 171	· .	107,2
	MIL-C-44050	931, 117	767.791	850,251	952,521		200	•	•
	M11-7-483		162,751	176.911	m.		ю.	,	214.0
	- N. L C 684	2,313,209	1,397,834	1,514,661	_7		•	7	780,
	MIL-C-508		805,921	884,080	972,933	1.022,281	•	- `	073.2
	10710-3-11N			161,219	•		ο,		
-	1070/- V-1070		1,068,764	1,068,885	-7		a i	-	890
	MIL-C-7218	1, 181, 728	672,850	727,511	ın.		0		847.1
	MIL-C-7350		4,307,370	4,625,532	'n		æ	so.	328.
	MIL-C-81614	165, 423	68, 493	92,383	-		-		5
	MIL -C-82252	34.891		22,010		25.714	(0)		27.5
	WIL-C-823	2,344,574	2,738,667	3,082,332	ò	3,553,984	ш	ë	748.
	MIL-C-83429	967,698	617,970	671,797	60	•	40		813,3
	MIL-C-83450	52,888		28	o	30,306	-		30.
	MIL-C-87052	833,444	2,632,770	2,738,973	827	2,837,374	ag .	~	134,
	WIL-F-43539	i		65,995	0	107	109,0		112,
۸. ا	MIL-T-43594	255, 808, 928	39, 309, 714	44,437,589	6	55,278,847	-	. 69	053,
	MIL-T-43718		18.719	8	m	25,928	28		27.8
	H11-V-844	3,049,680	2,099,890	2,247,182	387	58,		'n	B28 , 1
				216	387	768		وحز	-
	** TOTAL	388,358,388	129,215,95E	0	=	Ë,	166,888,529	172.	840°B
×	KSA-C-1000	135 300	A	A 8.7	E A ROZ	048 40	CAR 18		
	KSA-K-1000	Care	82.31	17.32	9	```	• •	•	٥
	KSA-K-2000	629.221	383.5	419.8	88	4	767	i	ò
	KSA-K-3000	1,668,959	39.19	25.	15		1 277,508	-	3
	KSA-K-4000	64,671	38,369		4		1	•	9
	KSA-K-5000	868	356	370	382	283	381		•
	KSA-K-8000	18,021	9.242		10,893	11,120	٠.		=
	KSA-K-8000	11,374	6.275	-	7.348	7,638	7.713		-
	KSA-K-800	-		88					-
	KSA-Y-1000	•		850,886,558	745			066	702
	KSA-Y-2000	15, 143, 226	11,617,319	Ĭ,	13,681,631	4.2	4,382,	Ξ	804,
-	KSA-Y-3000	86, 153	55,946	ام	65,518	68, 103			70.
	LPP-DES12-80	26, 138	17.213	10.4	22,220	23,839			28.
	M1L-C-17155		438,760		485,622	7	492	,	100
	MIL-C-1719/	1 339 726	~		201, 402	Ö	.027		056
	MIL-C-4/38		2,487,677	-	2,855,426	2,044,454		.,	037.
	MIL-C-4183	204,12	887. PC	15,3/0	16.243	18.477			343,01
	115-12-11H	201, 201	04-170	-	785.07	100.07			7
	12007 - J-12N	201	007.001	:.	/ B F	7/0'E			
	MI - C. 42824	707.07.	DZB. DO:	∴.	210.671	128,004			
!	MTL-C-43858	1 850 083	-	E 673 663	E71 012	215	2		1000
40 31	* MIL-C-43892	•	400	: .	7 287 445	20,00	-		
,	MIL-C-43938	•		200	727 327	0.4 A A A	250 42	•	282
	MIL-C-43983	79L 5RL	518 403	٦.,	831 848	BAR 724	874 845		100
	LT1 -7-8790		***	٠.	770 770		•		
	2272						9		

	SPECIFICA-		-	SCENAR	SCENARIO C			
w	TION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+38
	MIL-C-81393		563	•	727	•	787	833
	7 - C-66.50	03,628	27,03	38,838	8	39,481	39	8
	B086-D-11K		. 42	-	6	0,52	4.86	
- 1	** TOTAL	1,544,504,303	822,065,896	669,319,225	980,598,984	889,782,888	1,007,369,187	1,038,272,831
	KSA-NW-100	23,470	42.817	44,588	45,147	45,380	40.70	9
1	**TOTAL	23,470	42,517	44,599	45, 147	45,360	45,288	45,852
	DD0-T-88	2,965,408	2,231,997	2.401.881	2.K73 445	2 843 370	. 000	
	KSA-R-1000					2	J	76/1/1/19
	KSA-1-2000 KSA-T-3000	100,122	i.		u.	3,2	13.	88
Ţ	K\$A-T-4000	283, 168	138, 138	153 8 10	10,868	11,534	11,750	12, 322
	KSA-W-1000	30,840	5,205		Ö	-		97. P
-;-	MIL-8-1687		25	281	24			
~ •	MIL-8-574		2		5	987	202	828.2
	MIL-C-7040	3 824 030	2 624 074	880,03	961,	1,008,75	018,	'n
1	HIL-F-21840		4 60	7,621,030	-]c	4321	1821	821.0
	MIL-T-2283		-		117	=	418	
-	WIL-T-43586	17,475,819	Ö.		5	82		ם נו
	MIL-7-5038	10, /85 R 437 838	à		9	0	=	11.8
_	MIL-1-5237	50, 818	•	•	187,818,5	4,089,884	4, 108, 483	4,224,540
	MIL-T-5681	33,059	32,743	32,788				عاق
	MIL-T-6134	47, 138	47, 138					: =
- -	WEL - 1- 1727			- 1	ŀ	ı		_
_	MIL-W-27285		100 CC	'n.	<u> </u>	3	4	57.0
	MIL-W-4088	7.049.183	4.081.887	•	346, 206 4 808 480	548,717 F 010,000	94.0	551.3
_	MIL-W-43568		291	7		2	0	202
'	MIL-W-43638	2, 599, 693	1,488,482	3.		.693	920	989
	711-W-43666	-	1,477,147	1,600,847	733,	802	8	873, 1
	HIL-W-43003	700,000	222,028	; ;		e,	100	88
_	MIL-W-5038	4 252	E07.117	•		259,685	ຮ່	4.07
_	-530	12,824,245	7.472.058	-	A 800 405	4,252	TKC!	4.2
_	ED I	10,85	=	2	2	2		y, a
-"	586	5	335,787			416,287	2 :	9 10
	200	468,447	285,255	291,885	299,013	302,771	303,724	308,611
1	**TOTAL	80,810.258	61.633.699	68 700 430	79 549 664	78 546 864	010	
•							7,0	78,357,870
-13	2-1-301	11,084				52		Į,
_	MIL-T-3454	317,584	92,058 470,473	108.070	22	127, 424	131,942	36
-	41L-T-43548	2		8		3 4		216,184
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WINDE A382	SCENABIO A						
-4382	ī	X+0	M+12	M+18	M+24	M+30	M+36
	54, 568, 080	9,586.0	. •	.092.1	1.403.	491.2	32
MIL-T-43636	30, 478, 623	24,602,827	27, 197, 154	o	32,237,533	2.7	4,083
	87.651.078	8,885,3	٦. ص	8,638,8	1.675.	2,308,4	4,583.04
1/9-2-7	183,	120,8	-	1.1	147.	148.5	152,14
0/7-1-4	1, 523, 441, 628	0 1 0		131	5	756,2	827,85
300°-1-A	300,108,00	4	8	m .	33, 781,	0	159 39
C07-1-A	1, 200, 240, 184	808		8 15.7	. 388,	004	508
CRZ-1-A	478,604,625	37.1	3	838,3	72,348,	651,0	882,6
V-T-301	10.046.052	858.4		989.	872.	748.4	. 191
V-T-385	62,368,400	180,1		.615.7	. 987.	097,4	,816,4
* • TOTAL	1,588,475,525	8. 102.819.810	8 787 872 707	9 481 119 743	9 822 857 887	9 588 058 332	10.198 208 22
			•		•		
MIL-8-87019	47,552	25,551	26,582	27, 140	_	7,34	7
2938	31,643	17,245	20,366	85		4, 55	4
7 2 7 7	ઠ્	18, 408	17.804		20,621	20,872	ď.
	٦	613.61	66 : 11	-	1.15 260		'N
TEIDIAL	117,440	59,202	84,452	8		2,78	90
C-F-208	1 073			613		6	9
DD-L-20	3.784.544	384		F	14.0	600	2010
DDD-L-20	67,295,919	7	43,679,415	7 312	0 118 A7	980	121 80
JU-W-155	31,468,828	0.028		23 522 105		728	28 483 86
KK-L-2004	12,627		1.750	0.47			10.2
KK-L-271	15,282	689.8	806,08	10.077	47		
KSA-K-7000	855,304	268,489	292, 564	321, 281	337,590	342,645	254, 94
KSA-N-1000	4.242	2.642	2,842	3,004	3.048		=
KSA-PC-100	28,488	14,989	16,686	19, 187	20,744		22, 16
KSA-4P-100	5,332	3,560	3,829	4,046	4, 105		4, 19
L-5-125	586,520	335,588	365, 174	389,095	418.544		437,74
1. PP-0530-78	88.732	57,714	63,459	69,801	73,405	7.	7
MIL-0-1/0/	170,115	92	103, 619	112,401	- 1	•	121
MIL-8-41620	7.208.286	4, 182, 732	4.631.91B	4,807,352	5, 108, 223	57	5,310,62
31010-0-114 310-0-11-114	101,185	52,706	56, 630	80,868	62,847	ga,	ÖS.
	104,104	487-108		636	674,086	-	721,80
MIL-C-1/34	אינה סינה שינה	10, 10,	2, 121	Z . 385	2.478	N į	N S
00007-U-11H	200,000	424,051	200.024 000.004	500,445		27,	7
MIL-0-45305	4 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,711,848	1,860,712	2,024,421	2, 113, 362	•	3
MIL-C-43444	*/D'F7	410.41	16,030	16, 185	16, 825		2
M11-C-4307	1, 206 . 064 C. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	726,060	786, 181	200, 200 200, 200	883,658	•	ď,
MI -C-5040	A 000 183	200				2	֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓
M11C-75.15	0 100 810		0,0/0,0 0,0/0,0	070 000	300000000000000000000000000000000000000	•	a a
MXL-C-83242	874 OR					3	. 44 . 44
MIL-H-41802	139 625	314 652	348 048	394 730	011 667	-	316
MIL-L-11075	14.880	8 471	8000	000	10 830	•	
MIL-L-15040	098 08	322 094	38.4.8.4.3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	74.60	•	
MIL-L-1870	37,200	21 179	020 66	800 80	140,000	~	29.66
MIL-1-1709	222 427	000		100	200	•	3
7	- 47° - 17°	204,450	7/0,01	979'191	108, 738		

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	SPECIFICA-				ı			
YPE	TION NUMBER	SCENARIO A	X+0	M+12	M+18	M+24	M+30	M+36
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) (C				o i	7, 153, 064		Ď.	막
, (0	2	6	N.	?
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)اد 		20	-7		2, 161, 167	2, 764, 284	3,387,401	
J (069-0-000	1, 130, 865	22	8	5	. 2	•	•
۰	CC-C-432	ä	ဇ္ဇ	2	œ.	3	108.831	128.32
اد	CC-C-138	3,778,132	Ë	5,217,250	38	9,258,413	11,275,993	5, 57
J	CC-C-438	87,649	6	9	'n	5	211,295	10,13
ບ	CC-C-440	7,583		10,759	7	18,088	23, 253	27.41
C	CC-C-441	821	•	804	-	•	1 747	2 05
1	CC-C-448	72 870	Oto on	110 401	158 180	100 160	242 351	7
ں ,	CC-C-481		•	•	· •		100'074 0 485	
, (70-0-10	270 670 6		020.00	- •	70.00		
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: د			7.08%	2,744	, ·	~ `	07.8.70	•
∠ :	SA-8-1000	10, 482	•	17,565	•	31, 163	37.962	•
*	(SA-C-1100	1,234	- 1					7
ϫ.	<5A-C-1200	3	o.	.371	. 802	137	•	407.8
×	SA-C-2000	1.	•		55	. 8.8	٦.	.141.2
×	(SA-C-4000		99		,	,		~
¥	SA-C-5000	1.134		2 395		4.249	B. 178	٣.
_	.PP-DES13-80	10, 184		16,228			35,089	្ត
	.PP-DES18-73	987,173		7			3,408,303	18.3
	PP-DES23-73	474,653		666.579		211	1.483.884	749.6
	.PP-DES32-76	698, 124		8		7	2, 130, 163	11.0
Z !	IIL-C-10293	4, 512, 328		5		50.		107,73
z	IIL-C-10799	=		17		30,597	37,273	43.94
I	IL-C-10859	2,268,920		988		7	Ξ.	871.8
=	IIL-C-11065	958,870	•	1,334,472	1.851.042	367		3,400,7
*	11L-C-12095	20		9	997	52	١.	670.1
I	IIL-C-12189	3.088.303	848	7	177	238	٠.	835.2
X	IIL-C-12389	2		6 a S		à		294.8
13	IIL-C-15062	3 098	-				4	13.0
*	IL-C-16290	330, 335		•		ACC ACA		
=	IIL-C-18375	138		i)
-	IIL-C-18387	190 651	167 484	273 283	379 043	484 825	Seo Bot	67
3	IIL-C-19002	# 5 E	7	1 224	: -	•	0.00	, -
3	f1C-19699	2 454	. 16	707		1.0.1		•
: 3	111-0-19759	000 000	=	1 341 415	- BRO -	9 370 000	200 C	1
3	111 -C-2069A	24 683	:	30	;	ù		
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3	11 -C-2184	40.4	Ñr	77777	404 100	ŀ	776 36	-10
3	11 - 6-21852		•		220.01	777.79	100 000	•
. 3	111 -C-23628		•	**************************************				
	17 - 7- 30 1 18	22 72	la	F 0 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	966	700, 300	100 P	-10
3	111 - C-20127	25. 672	•	0000	- 17 - 18		201.00	ià
. 3	111 -C-29137	400	ėa		0/1,00			•
	111-0-50117	Apr. Ott	a le	4 200	e u	CCF 486 6	077 7 F	-14
3	111 -0-297	200,000	• .			## ' FB' . "	000) ā
: 3	111 - 0 - 328		٠,	30,400	3		#17 'DYB	Ö
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SPECIFICA-				,			
TYPE TION NUMBER	SCENARIO A	M+0	M+12	E+ 10	M+24	M+30	8C+X
-33	ä	926,031	•	5.75	6	4	6
E :	C.		18,6	25.6	32	98	
MIL-C-342	3,636,575	3,501,103	5,388,010	9.0	5,62	11,840,731	13,725,6
38	28	c	87	•	87	**	
-37	103,738	88 882	nic	2 E	787, 121	355,657	617
BE-:	32	, 4	30.06	9 C	20.44	306.3	381,
-39	-			•	ָרָר (אַרָּי	84.8	.000.
9-	-) (85	3	310	77.75	214	1
Ĭ.		4	. 6	70,740	13.104	13.80	
À			27	֓֞֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֡֓֡֓	200	66, 23 66, 33	
	• •	131,239	23	310	315	310	1 0 4
Ĭ.		9	86.9	1 78	78 76	24.40	. 0
		39	•	17.9	9		1 502
Ĩ.			10	1	18,098,528	92,74	21.0
Ι.		•	2 3	323,9	411.2	04.68	100
		142	0	80	40,1	70.17	201
		0	~	3,5	8	18,09	2.141
:	177.	ø,	253,9	52,2	8.0	48.85	
11	607	8	,617,0	78,4	739.8	301.35	•
Ξ.		20, 11	-	616.5	183,2	507 94	8.852
Ι.	<u>8</u>	95,81	.083, 1	90,5	487.8	645 22	
	602	S	153,0	373,5	÷.	814.61	8 035
Ι.		83,78	463,0	12.2	821.4	000 73	1 179
Ī.		372, 108	-	-	1,077,155	=	1.547
31		49,72	91,1	112.5	3	175 34	. ~
	883	88.	9	ø	130,4	595 32	3.080
Ι.		98,21	.683,3	270.3	857.4	444.55	0
Ĭ.		15.1	, 656, 3	, 297, 3	938.7	79.83	. ~
		60	en:	927.2	0	444 83	1,703,8
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i.		•	7	10	₩.	15,88	2
		æ.,	m,	8.0	5	03,88	4
		٦,	•	381,7	501.0	€.	719.
ij.		ונט	911	90	8	83, 32	9
	070.070	008.0	28.87	9	52,003	63,349	7
- 7	858	133	2	7 (200	68,65 60,65	•
1		-) i () b	יים מים	ביים ביים	37, 975
1		•			, ,	4	¥ .
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		<u>ا</u>	10.3	E 71	100	100	000
7		٥.	7	82.5	35.86	90	
		٣.	78.28	02.5	28 BR		
7		J.	97.95	552.0	708 04	-10	
7		'n	446.79	810	1.00	40.00	
-508	,357,	1,210,584	2	•	04.32		
י מי י		7	87.8	10.2	832 8	•; -	
-702	2					;	
		•	? . 7	•	1.077.144	a	* aC *

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	TION NUMBER	SCENARIO A	0 X	M+12	Z+18	4:34	M+30	M+36
_	WII -C-7350	. 00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
-	WI - C- B 18 14	, a	7.90		٦,	5		
-	411-C-923		919	197 777	Y	-		566
_	WIL-C-83429		, ,		77	:		
_	WIL-C-83450		7.5	2;	Ď		0 1	. 600.
	WI - F - 43630			÷		ni: Vii	7	악입
_	M1L-W-844	3,048,680	3, 188, 539	6,218,40S	7,234,272	253, 139	11,272,009	13,280,87
1	** TOTAL	121,732,171	118,030,425	191,478,489	264, 926, 549	338,374,624	411.822.865	485,270,731
-4	SA-C-	26	***	:				
- 1-4	KA-K-1000	ار 214			292		- 10	C 1 2 4
-	(SA-K-2000	828 221	74/1.800 74/1.800	/87 '085' CE	;;		28, 168, 632	* (
_	KSA-K-3000	88.95	1 673 738	:		4 KKK KK7	007 078 X	
-	KSA-K-4000	P	55.075		127.	3 . E	00 C 70 C	2000
_	(\$A-K-8000		14 027	200°CC		200.04	707 07	
-	(SA-K-8000	11 374	600	100	. 14	10,00		3 6
	SA-K-800	7	100	4	110	10011	C1 C 7	9,7
_	(SA-Y-2000	15, 143, 228	978	. 6	. 770	61 A 1 A 1 A 1 A	כשר סכר כש	30 206
-	(SA-Y-3000	8	1	1	101		•	
-	PP-DES12-80	28, 138	28 673		7	160 72	AC 178	100
_	41L-C-17165	721.708	676,283	103	630 6	9	2 384 787	2 212
-	41L-C-17157	1, 339, 726	1,290,428	2, 105, 432	920.4	735	4.650.481	7 1997
-	MIL-C-3736	4, 136, 644	3,789,635	183	1440	10,989,999	12,363,448	15,759,9
-	47L-C-41831	21, 402	22,022	35, 931	40.4	69	77,658	9,10
- 1	MIL-C-43247	109,753	008 88	158, 100	~	280, 498	341,698	402,8
-	۰ب	G. 170	1,882	e,	4	877'9	8,638	7.8
	֓֞֞֞֜֞֞֜֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֜֜֓֓֡֓֡֓֜֜֜֓֓֡֓֡֡֡֡֜֜֡֓֡֡֡֡֡֡	176, 107	101.00	260.089	~	481,448	582, 127	667.4
- 12	MIL-C-43824	=	2	2	38.9	7	67,503	67,8
- 1	٦٠	1,650,263	123,635	254	85. 55.	23, 516, 364	28,647,207	33,778,0
. 2	י ני	- (÷.	1, 165, 678	618.9	8	2, 619, 363	2.970.5
ijJ			-		8	640,737	780, 533	920,3
. 2			700		•	108	1,350	
- 3	۽ د	OF S	•	÷.	-	2, 421	2.049	7.
. (2	カルウル	979 70	080,030			162, 193	197,581	232,8
	05-5-1	070	÷	<u>.</u>	72.9	888.888	1,204,400	1,420.1
Ĺ	**TOTAL	27,403,507	43,895,893	71,615,708	99,337,912	127,080,119	154,782,324	182,609,14
×	KSA-NW-100	23,470	64,312	104,930	145,548	186, 167	228,785	267,40
1	**T0TAL	23,470	64,312	104,830	145,548	188, 167	226,785	287,40
0	100-T-86	814.719		314.1	23 7	333	7	380
	12-W-155	31,404,898				87 B27 990	1	10
×	(SA-T-3000	48,344	12.3	20.2	28.0	6	5	81.0
٤:	SA-T-4000	263, 166	80	-		595, 201	6	8
*	KSA-W-1000			ľ		22,429	27, 322	32,21
3	IIL-8-374	14,672,881	ш.	2,5	ю.	68,357,590	b	9.6
2				910				

			•	47.18				
	TOTAL MARKET	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	918	H+12	M+10	M+24	M+30	2 30 × 30
N MIL-	-C-7040	3,621,030	3,621,030		621.0	621.0	621.0	Ç
HIL-	F-21840	5, 452, 853		10 28R 582				;;
	MIL-T-2283	208.883	-		1000	Zaat.	100	10
HIL-	MIL-T-43588	17,348,085	22.821.580	708 808 96			1 0 0 0	0 0
HIL-	HIL-T-43709	•						. 660, 18
- MIL-	HIL-T-5038	S 437 838	N 009 240	107 100	746	3 14 3 14	7	# 10 0 1
MIL-	T-5861		_	_			600./	40,530,4
HIL-	T-6134	47.138	47, 138	47 138	, ,	•	700 . F. 7	'n
-JIE	1-0363	185	188	272	Cac		000	7
MIL-	MIL-W-17337	53,801	62,310	101.884	141 018	œ	210 724	u
HIL-	W-27285	579,742	584,853	516.792	668 731			
-114	W-4088	7,049,193	6,011,785	9,825,412	13, 239, 059	16, 852, 703	20.468.349	24 070
HIL-	W-43566			291				
MIC-	W-43838	2,599,693	2,231,774	3,641,315	.050.8	480.4	869.9	279
-111	W-43888	. 153			B ,060,112	1	107	ĭm
-11M	MIL-W-43685	398, 507	331,868	541,489	751,071	960.8	170	370
MIL-	W-43688	380,497	319, 137	520,697	722,258	•	. 25	328
-JIN	W-503	*	4,252	4,252	4,252	C	7	
N11-4-5	<u>ი</u>	•	11,297,395	18,432,852	25,567,786	9	39,838,178	
MIL-W-5	W-5825		10,858	10, 858	10.8	10	10	9
	9	₹.	508,580	824, \$63	1, 144, 133	•	2.1	
# - 1 T M		489.447	325,763	401,224	476,388	Ξ.	27.E	703
1-444		383	393	393	383	293		
		565 76	1666		102101	7 ()	151,435	115
	•101AL	.	116,828,527	₹.	258, 495, 492	329, 279, 499	400,083,498	470,649,5
C-T-3	301	11,084	581	918	1 280	Œ	ļo	
¥11-	T-34548	317	258,031	420, 998	583	3.93	•	072
HIL-	-1-43548	5,348,309,232	6,712,983,851	608 2	324	043 30	78 1 B	745
MIL-T	1-43824	675	8,881,555	14,490,9	20, 100	25, 709, 76	313101	38.00
	MIL-T-43836	30,478,823	. 177.	:87.9	458	06.749.56	040	331
- - - - - - - - - - - - - - - - - - -	T-83193	95,951,078	8,737,	782.5	827	872.29	917 1	962
	871	183,200	162,938	298,475	417,013	Ī	645 0	780
-1-A -	55	52	;	72.8	5	129,44	•	II.
-T-V	/-T-279	1,116,873,244	,747,	271.9	796	55, 320, 53	52.845.0	50,389
-1->	280	34,253	548	81,259,6	64,973,	108,688,43	132, 399, 6	58.113
7	-285	60	2,215,	457,1	888	018,340,08	675.181.5	333, 422
7	641	481,305,713	435,858,262	527,5	985,398,	30,270,28	95, 141, 5	80.012
Y-1-	(3	40	. 845	843,3	9,440	6,238,15	10,035	J.
	*TOTAL	9, 342, 402, 832	8,628,977,412	15,700,000,285	21,771,110,114	27,842,237,949	23,813,358,768	28,374,740,8
MIL-	MIL-8-87018	47.552	8	10	7	•		
MIL	C-43838	24, 488	•	21,881	30	38,840	47,313	
Ţ	**TOTAL	72,620	+ 6.1.3.12 50.384	4104:530	145.518	156.833	177. 元元 185. 246	+ 7/2
2	900	ı		- f		ŀ		
	DDD-L-20	1,073 48,558,411		- 6	2 2	~ 5		
200	700						2	

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YPE	ON MUMBE	SCENARIO A	8	M+12	M+10	H+24	M+30	M+36
7	KK-L-271	15.262	ď	1.21	7	-	45 843	84.08
	KSA-K-7000	406.808	•	78		L 154 584	, 4	
Ĺ	KSA-N-1000	4.242	4.072		9.215	11,727	14.358	12
	Ξ	150	•	2	. ~	464		•
	KSA-WP-100	6,332	5,486	1981	•	=	19,348	22,811
	1-5-125	586.520	504,755	823,545	1,142,339	1,481,129	1.779.921	2,098,71
	LPP-DES8-78	60.732	86,297	140,800	ຸຕ.	249,808	304,309	358
	MIL-8-17757	170, 115	144,994	238,570	28.1	419.720	511,298	602.87
	M11-8-41826	7,209,298	6,328,883	10, 328, 067	14, 323, 259	18.320.445	22.317.625	28.314.82
	MIL-8-81813	107, 185	8	130, 551	181.088	231.825	282	332
	WIL-C-15085	51,552	40.527	68, 122	91.718	117.314	142 910	188.50
	WIL-C-1734	2,580	2,638	4.304	5.970	7.636	9 303	10.96
	MI:C-43256	755.379	640,248	1.044.015	1 448 991	853	257	682
	MIL-C-43303	2.369.324	2.584.034	4.218.058	S 848 078	7 480 098	D 112 120	10 744 14
	MIL-C-43424		2	34,719	48 159	9		
	MIL-C-43678	1,268,882	1 099 494	014 645 +	2 488 327	182	7	A 571 57
	MIL-C-43701		4	77.778	107 883		18.	-
1	MIL-C-5040		8		4 808 A	411	0.16	151
	MIL-C-7515	2.728.578	7.13	2 786 092	2 808 264	857	9	7
	MIL-C-83242		9		9000			27.0
	MIL-H-41802	130 925	470,431	787 548	1 064 860	1 381 775	-	00 858 1
	MIL-L-11075	088	12 895	20. 712	28,730			52 28 52 28
	M1L-L-1870	37 200	31 738	51 78C	71 824			131 95
	MIL-L-1709	441 528	371 724	BOR 500	708 288	0.28	Ş	1 619
	K11-1-40051	47 278	39 773	A4 803	25.00	9 H	140.011	16. 23.
	WIL-L-40069	000	1 604	2,612	60.6	•	-	8 88
	M11P-15064	322 272	270 553	441 420	A12 308			1 124 93
	MIL-R-1870	158,000	139 945	228 899	314 454	6		577 71
	MIL-R-17343		540 568	881 979	1 223 390	56	9	247
	MIL-R-24049	8 750 000	1 948 044		4 404 204	633	BR	į
	MIL-R-30500	88	1, 897, 252	2.780.201	3 141 150	013	986	058
	-433	2	672.045		1,520,943			2.784.29
i	WIL-S-8790	28,773	26,659	867.67	60, 336	77	6	2
	408	342,284	270, 436	441,237	812.042	782.843	953,642	124
	-57	611,340	530,415	865.418	1,200,414	S	7	2,205,41
1	T-R-605	6,072	-	3,308	4.585	-	-	
	9	3,860	ñ	246	341	436	531	82
ļ	T-T-871	1,220,304	7	6,99	9	5,64	-	4,044,28
	49	22,643	7.67	74 432	39.99	51.15		73
	ē	1,023,636	820,531	1,338,762	1,856,992	8	2,893,454	3,411,6
1	V-F-108	154, 200	7	83,20	97	112, 14	•	5
		1,419,410	6	ID	2,801,800	83,44	100	5, 147, 12
	ALTOTAL	ACR ACR RO	70 447 719	108 800 800	100 000	# 100 BCC BCC	100	250 040 20

APPENDIX L SPECIALTY ORGANIC FIBERS

		Same and the Profession Education	Total					
Filter	Fiber Type	Teaseity (gw/denier)	Elougation at Break (percent)	_e i01	Moisture Regain (20°C, 65% H1)	Degradation Temperature (°C)	Remarks	Ap lications
Homex	Aramid		18-22	27-28		370	Does not nell; self extinguishing; dyeing problems; pilling problems; UV light sensitive; abrasion resistance similar to sylon (A and polyester. Excellent electrical insulation.	Hot air filtration, fire reass- tunt clothing filtre fighters, racing car drivers, inunitions workers, petroleum workers) electrical insulation:
Nomex AII Nomex SP	95% Romex 5% Kevlar 50% Homex 50% Kevlar	i	ą d	ė	į	i		aerospace.
Conex	Arainid	3.5-4.5	35-50		9-9	375-415		Hot air filtration, electrical Insulation, protective clothing.
Durette	Modified aramid	1-2	17-20	35-38	4.1	895 = ignition	Rexists shrinkage at high temperatures.	Hyperbaric chamber clothing; auto racing uniforms.
Kevlar 29 Kevlar 29 Kevlar 49	Aramid Aramid	19-22	-12		8.5 3.5	057	Very strong fiber. Very strong fiber. Very strong fiber.	Rubber reinforcement, woven fahrics, cables, harnesses, plastics reinforcement.
PBI	Polybenzimidizole		19-24	38-43	. 61	007	Light sensitive, excellent acid	Aerospace, woven goods (cloth- ing), stack gas filtration, asbestos replacement product.
Polyimide 2060	Polyimade	e d	F. 9.	\$		B. B.	Good acid resistance.	Stack filtration, acrospace, fire turn-out suits.
Kermet	Polyamideimide	2-1	10-20	R- 8-	P. P.	007-058	Attacked by alkaline solutions; resists acids.	Fire resistant clothing.
Celiox	Cychred, cross-linked Polyacryloniwile	7.1	91	90	10	ŞIE	Less than average abradion reststance. Converts to carbon fiber upon high temperature exposure.	Fire resistant clothing; filtra- tion, heat shielding.
Kynot	Novoloid	5:	35	29-30	6-7	095'2	Low strength and lov, abrasion resistance, good thme resistance and thermal stability.	Fire resistant clothing; electrical insulation, filtration.
PIFE	Fluctocarbon	1.6	93	795	•	118	Poor abrasion resistance, low strength, poor dycability.	Filtration, packing.
a. 10l, Lim in an ox condition 21%, a. I example: An LOi of	103, Limiting Oxygen index, is defined by ASTM 2663 as the lowest percentage of oxygen in an oxygen-nitrygen mixture required to just support combustion under specified conditions. A low LOI indicates bigh flammability. Since the oxygen content of air is 21%, a flore with a markedly higher LOI will exhibit reasonable fire resistance. For example: intreated cotton has an LOI of 16-17 and flame-relardant treated cotton has an LOI of 20 and woot, 25.	fined by ASTM required to ju- layly flammach fact LOI will in LOI of He-17 i LOI of 20 and	12663 as the k 1st support co inty. Since th exhibit reason and finite-re wool, 25.	owest per ombustion be oxyger table fire	support combustion under specified y. Since the oxygen content of air is hight reasonable fire resistance. For all financ-retardant treated cutton has out, 25.	·		

APPENDIX M
MM-MADE FIBER PRODUCERS (MMFPA MENRIRS)

	Acetate	Acrylic	Aramid	Metallic	Modacrylic	Nylon	Olefin	Pulyester	Rayon	Saran Spa	Spandex	Iriacetale
Allied						= S .	Polyprupylene)	u				
American Cyanamid		1,2										
American Enka						f,S		۴,5	~			
Avlex	v							•	F. S			
Beaunit									•			
Celancse (fibers Mkrg Co.) (M) = Mexico (C) = Canada	J. 1. S	S,T(M)				F(M),S	F(C), S(C)	F.S.T	F(P), S(M)	£		s.
Courtaulds (O.C.M.A)		1,2		,	×	•			5,1			٠.
Badische		S.Y				f.s						
DuPont		1,2	-			Y, F, S, T		1,2,7		×		
Eastman	L.				*			f,s				,
Hercules							7.2					
Hoechst								f,s				
Monsanto		Y.1.8			*	F,S,T						
Phillips							F,S					
North American Rayon									1.4			
Anoco Fabrics							,					
• Fiber (X) • Staple (S) • Tow (I) • Yarn (Y) • Filament (F)	• • • • • • • • • • • • • • • • • • •	51 01 8	~	·	•	2	13 6 19	. 26 36 36 36 36	#m. %	ν ο	•	e 5.2

APPENDIX N

DOMESTIC MAN_MADE FIBER CAPACITY (MM Lbs)

			•							
		Varn &	Monot i Lanent 16 16 16 16 20 20 20 20 20							
	Toutile	61 255	F iber 909 893 940 1,220 1,443 1,440							
	Acrelia	Staple	824 829 869 869 855 830 838							
	2	Staple	= •							
	Olefin(Yarn &	672 864 878 926 930 930 933							
		Staple and Tow	1,961 2,149 2,390 2,558 2,637 2,733 2,769 2,854							
	rolyest	Yarn & Monofilament	1,852 2,027 2,126 2,057 2,094 2,092 2,014							
_	1	Staple and Tow	773 885 959 965 965 1,030 930 1,039							
Mylon	1007	Nonofilament	1,871 1,842 1,885 1,844 2,030 2,053 1,976 2,028							
		Fotal Mo 412 413 379 326 334 331 322								
Acetate	Stanla	and Tow	00 00 00 00 00 00 0							
		Yarr	384 371 371 318 326 360 363 373 318							
			825 831 775 745 746 589 657 568							
Rayon	Stable	and Tow	94 737 94 737 85 690 85 658 75 671 75 514 53 514							
		Yarn	100 94 85 85 75 63 63							
			1975 1977 1978 1980 1981 1981							

(1) Nylon includes Aramid.
(2) Olefin includes polyethelene, polypropylene and vinyon.
(3) Acrylic includes modacrylic.
(4) Other includes saran adm spandex.

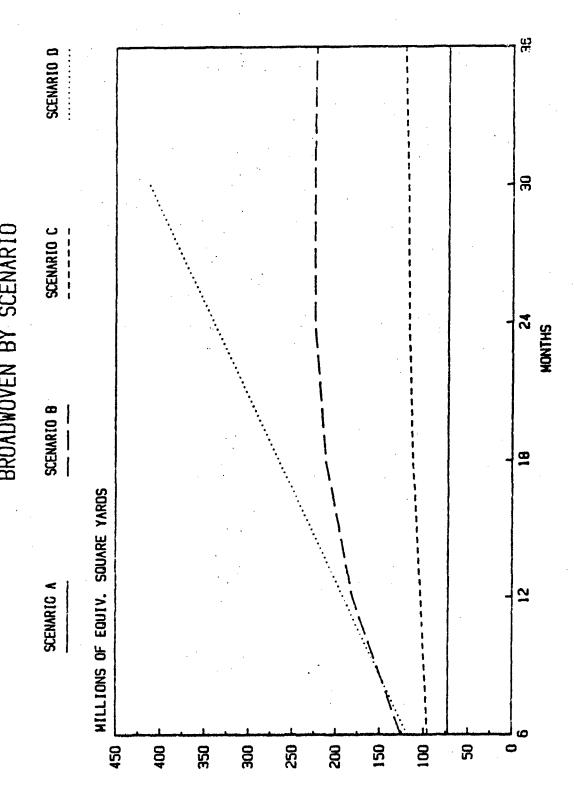
APPENDIX O

U.S. MAN-HADE FIBER CAPACITY

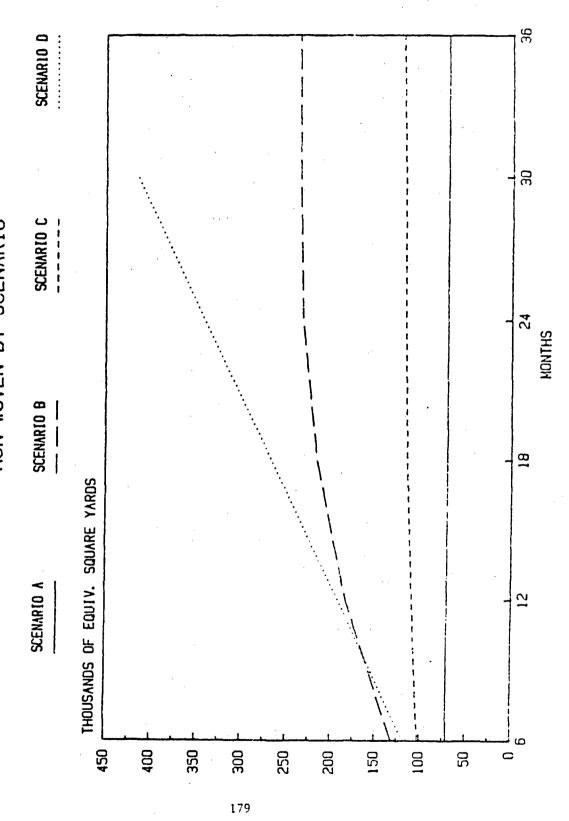
(Millions of Pounds)

		FOI	RECASI	
	Nov.	May	Nov.	May
	1982	1983	1983	1984
RAYON				
Filament	58	58	58	58
Staple & Tow	510	510	510	<u>510</u>
Total	568	568	568	568
ACETATE				•••
Filament	318	318	318	318
Staple	4	$\frac{4}{322}$	$\frac{4}{322}$	$\frac{4}{322}$
Total	322	322	322	322
NYLON			5.20	523
Textile Filament	536	537 533	539 538	546
Industrial Filament	528 933	950	955	960
Carpet Filament	933 987	1,037	1,055	
Staple Total	2,984	$\frac{1,057}{3,057}$	$\frac{2,033}{3,087}$	$\frac{1,062}{3,091}$
Iocal	2,504	2,437	-,	·
POLYESTER				·
Textile Filament	1,265	1,274	1,274	1,274
Industrial Filament	337	340	343	345
Staple	2,832 4,434	2,852 4,466	2,877	$\frac{2,877}{4,496}$
Total	4,434	4,466	4,494	4,496
ACRYLIC			•••	0.54
Staple & Total	849	851	856	856
OLEF IN	••		225	235
Yarn	226	232	235 378	378
Monofilament	369 460	373 470	470	480
Slit FIlm Staple	274	274	274	274
Total	$\frac{274}{1,329}$	1,349	1,357	1,367
OTHER	•			
Saran Yarn	5	5	5	5
Spandex Yarn	25	25	25	5 25
Vinyon Staple	7	7	7	$\frac{-7}{37}$
Total	37	37	37	37
TOTAL*				20.
Cellulosic	890	890	890	890
Noncellulosic	9,633	9,760	$\frac{9,831}{10,721}$	9,847
Total	10,523	10,650	10,721	10,737
* Excludes:				
Textile Glass	1,718	1,754	1,804	1,815

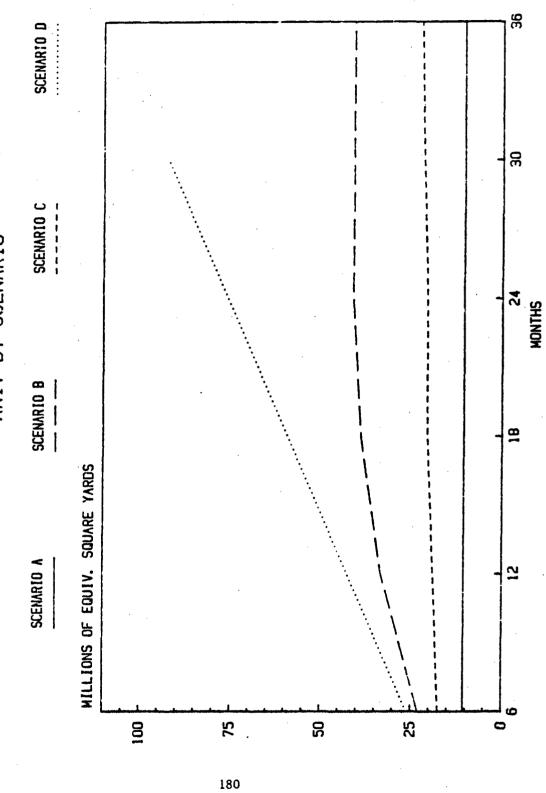
APPENDIX P
TEXTILE CATEGORY DEMANDS
BROADWOVEN BY SCENARIO



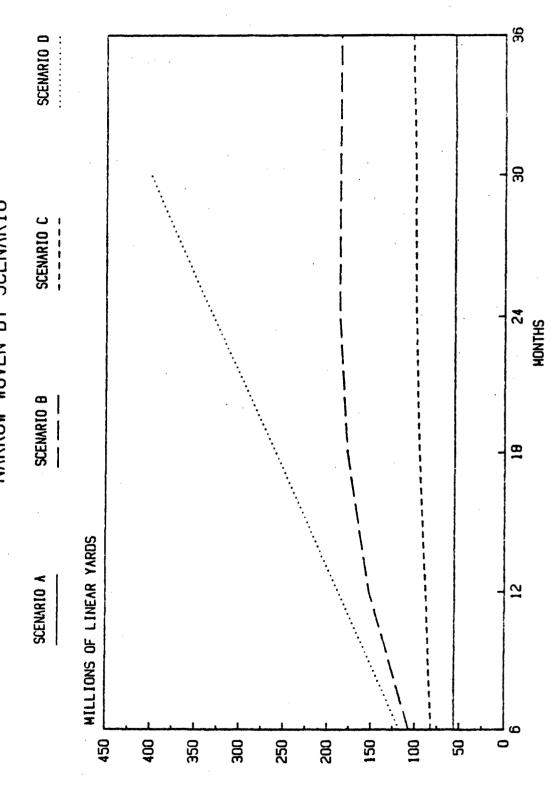
TEXTILE CATEGORY DEMANDS NON-WOVEN BY SCENARIO



TEXTILE CATEGORY DEMANDS KNIT BY SCENARIO



TEXTILE CATEGORY DEMANDS NARROW WOVEN BY SCENARIO



APPENDIX T

Classes of Broadwoven Textiles

Cotton Broadwoven Gray Goods

Duck and Allied Fabrics

Sheeting and Allied Coarse and Medium Yarn Fabrics (except Bed Sheeting)

Bed Sheeting

Print Cloth Yarn Fabrics

(Carded yarns approximately 28's to 42's; threads per sq. in. 85 and above.)

Tobacco, Cheese, and Bandage Cloth (Threads per sq. in. 84 and under)

Carded Colored Yarn Fabrics (Denims, Chambrays, etc.)

Toweling, Washcloth, Dishcloth fabrics

Blanketing & Other Napped Fabrics

Fine Cotton Goods Combed Fine Carded

Other Woven Fabrics and Specialties
(Bedspreads, Drapery, Upholstery, Corduroys,
Velveteens, Damasks, etc.)

Blanketing, Silk, Pope & other speciality fabrics

Man-Made Fiber Broadwoven Gray Goods

100% Filament Yarn Fabrics
100% Spun Yarn Fabrics & Blends
(Chiefly Manmade Fibers by weight; except bed sheeting)
Bed Sheeting
Combinations & Mixtures of Filament and Spun Yarn Fabrics

Wool Broadwoven Goods

Woolen Apparel Fabrics Worsted Apparel Fabrics Non-Apparel Fabrics

APPENDIX U

STANDARD INDUSTRY FABRICATIONS

	Some factors Influencing Cost	Fiber content Weight Ply yarrs Mercerization	We ight	Weight Yarn twist Fiber content May be piece dyed (cheaper than stock or skein dyeing)	Yarn quallty Thread count
-	Influences Garment Mfg.		Difficult to stitch several thickness together - thickness of fauric reduces no. of plies (layers) per spread	Care in pressing due to tendency to shine Difficult to conceal construction in-acuracles and defects in flat, firmly woven fabric. Uniformity of interior details (hems, seam allowances) more critical if imprinting on garment exterior	Should be pre-shrunk before cutting
	Suitable End Use	Blouses Shirts Dresses Heavy coetings (wool)	Sports equipment Some sportswear, such as shoe uppers Work clothes, Industrial uses	Men's and women's bear Sportswear Rainwear	Blouses Summer dresses Underlinings Patternmaking
	Characteristics ng Performance	Durable Versatile	Nost durable	Long wearing Tendency to Shine	Versatile - can ba bleached, printed, dyed, glazed, etc. for wide uso
·	Characterist Distinguishing	Meight may vary from sheer dress fabrics to heavy coatings - cotton broadcloth has approx. Uwice as many warp as filling yarns giving fine rib appearance	Closely woven, heavy material - generally made of ply yarns in warp and yarns of various sizes and weights in filling	Warp faced steep (45° or 63°) twill of worsted, cotton and various blends Smooth, hard surface Appearance of single, diagonal lines on fabric face	Soft cotton fabric warp yarns ave. 30s, filling yarns 38s to 44s. Thread count approx. W-56 to 80
	Meave or Method of Fabrication	Plain weave	Number and army ducks, plain weave ounce ducks 2/1 basket	T T T T T T T T T T T T T T T T T T T	Plain weavg
4	Fabric	Broadcloth	Buck	6abardine	Mus 1 f.n

Name of	Weave or Method	Characteristics	19	Sultable	Influences	Some Factors
Fabric	of Fabrication	Distinguishing	Performance	End Use	Garment Mfg.	Influencing Cost
Osnaburg	Plain weave	Coarse cotton cloth of medium to heavy weight. Characterized by uneven yarns which have bits of cellulosic waste. Should be described as P. W. (part waste) or Clean Host impurities bleached out and fabric resembles coarse yarn linen.	Depends on waste Incorporated Washable	Suiting Sportsmear Beachmear Pocketing	Waste in yarn may cause irregularities in fabric that would be objectionable on collars, lapels and other highly visible garment parts	Percent waste Varn quality Compactness of weave
Pop 1 in	0 A T T T T T T T T T T T T T T T T T T	Similar to a Hightweight rep - heavy rounded filling produces Hight corded effect W-88 to 116. F-40 to 56. More pronounced rib filling effect than broadcloth.	Dur ab le	Oress goods Sportswear Uniforms Rainwear if water repellent finish	Sean finishes needed to prevent ravelling	Fiber content Weight Yarn quality Carded or combed
Koope	Any weave	fabric of coarse and fine hair fibers in rather random arrangement in the yarns; characteristics are loose fiber ends and bulk; has lower thread count and cheaper than worsteds	Does not tailor well nor hold creases Gives good wear, tends to sag.	Monen's suits Coats	bifficult to tailor well. Pressing difficult for pleats. creases and flat edges. Bulky especially where seams join. Requires underlining to reduce sagging	Shorter fibers than worsteds. tess yarn processing toosely woven compared to
Worsted	Depends on fiber and spinning method smooth, lustrous high twist, any weave, normally plain weave	fabrics of uniform, fine, long hair fibers in parallel arrangement in yarns; more expensive than woolens; light- weight, compact fabric.	Holds crease Gives better wear than woolens Strong	Tailored suits Coats Sportswear	Tailors well Difficult to conceal inaccuracies and defects in construction	Fiber quality Yarn quality Compactness of weave

APPENDIX V SHUTTLELESS WEAVING MACHINES

FLEXIBLE-RAPIER MACHINES

Manufacturer	Musee Pignene Die. Smit Vis E. M.magna J. 36015 Schie. Haly	Neese Pignese Div. omit Vis E. Nomekins I 36415 Steller. Haly	Pleaned Fotentian 3 7 8900 kpt.
V. E. repieserstatien	FTMI Box 3323 Sperianburg SC 29304	PTM1 Dox 3323 Spartanburg, SC 29304	Prenol of America But 3519 Green the AC Space
Kedel	TP 300 Series	Tr 400 Series	ADM.
Width (ite.)	75 161	79 165	10.00
Speed: Welt lasertion (ppm) Picho/mia.	541 300 (73-in, model)	724 (78 in model) 330 (79 in model)	
West laserilas method	Grippers and flexible raphre guided him the shed	Guided flexible rapier with gripper system. Hp tu-tip transfer	Flexible reper driven by seothed bet

Underseah cam (B), outside cam (12), dobby (20) jacquard	
Camb - 12 harrenes positive 1982. Sander debdy - 20 and 28 positive 1982. Sander 2223 pequard is asb	
Warp shedding method Composition of the Composition	

Up to eight colors controlled from dobby. of separate blatter on ram knows
Eight colors, pick and pick, sectionships direct. It is own separate tape pattern.
Writ-B cater arter tur, separate frum dolday in acut
Color pattern salection

Wary been die jin. j	31.5, 39.4	31 5. 39 4	28.32.36
Meb range (ppt)	5 08 227 3 (2 0 avail)	4 86 262 37 (1 6 syall	1,450
Tobrico worre	Windens, drapery, uphidatery, blankes, mercial and thermal, eles rete bashes shells table richt dentim conducting bidissertate	Woven blankes a ryke. Borstel apparel fancy rutins shiriting thends. dettin, twite	Apparet, home furnishings, heavy industrials, that mires yare fabres, knings, shrething denim, cordury, teching
Mbita, Jacos woven	Kritas flas mainmades Geiton, silk, rayon Sectist, jule bemp prippiene	Mondelament, 15 2 200 dTes. wn 1 km 0 5 62, conten. He 0 3 100	Cotton: blends of polyrater, Ran, ravon: all Hamerals including rayon, polyrater, rayon, polyrater, rayon, plied industrials
Approx cost (6 U.S.)	Depends on specs	faw to mild 40 000	25 000 (depends on special
Approa delivery ime.	Depends on spens	••	
Other opecial features	Indivisinal and recy (115% bonys at allabe, hw under seel - ng dits, hw undistriance and uperaling coal tecked in Jens hot knife selvaçes, hw filing assets -	Competely cuclosed historian system. Intelligible with fraction gracing special practition and seek such seeks are some special systems. In quite prefer 1 years a require prefer 1 years a	Thermo tucked setuages, to the state and remer ulitamine setuage suite, pit is setuage setuage suiter, pit is finaling destre; to the setuage suiter, pit is to the setuage suiter pit is to the setuage suiter pit is to the setuage suiter pit is to the setuage suiter pit is to the setuage suiter pit is the setuage suiter sui

H. copressateline	Manufacturer	Gassa Grabit & Co. D 4773 Mohnever Gunn. Nest Gerstally	Guana Cabil & Co. D 1772 Mohneter Gunne West Germany	Sevesta Kodanska të Prague to Czerboskoaka
Atr Jet 2000 Atr Jet Terry 48 111 48 111 To 1.420 To 1.040 Water nozzle and Mater nozzle and auxiliary nozzle auxiliary nozzle au	V. C. ceprocestatives	Oter inc Box 600ti Greenille, S.C. 296ug	Oten tinc Box 6000 Greentle, S.C. 29008	Ominica 3301 Parkade Dr Charlette RC 30030
49 111 40 1040 154 1040 154 1040 154 1040 154 1040 154 1040 154 1040 154 104 104 104 104 104 104 104 104 104 10	Model	Air Jet 2000	Air Jei Terry	Jenie 190
To 1.420 To 1.040 To 1.040 To 2.040 To	Width (in.)	111 00	19 61	2
Main norzie and Main norzie and ausiliary norzies audiliary norzies	Speed: Well insertion (79m) Piths/min.	To 1.420 Ex.6.10	Te 1 040 Fe 370	1040
	Well investing method	Main notite and Buxiliary notites	Main worste and auxiliary norstes	Multipet confusor

Cara motion up to 8 harnesses		
Cam motion dobby Jequard		
Cam motion dobby.	•	
Way shedding method		

Single color
Stayle color well Inscriba
Single culor well inscriton familiender well insertion under development?

Warp beem die (fa.)	36 at	No 36 (ground). To 48 (pd-)	35 4
Fick range (ppi)	1 27 320 04	254 160 02	10 16 203 20
Debrites weren	Lightweight to medicineright shere for 14 75 are'ng yat	All types terry	Fabrics to 125 or sq.yd. plan, in M. saleen enedurcy
Pibero, yeras movem	Staple and filament	Statute fiber yarms	Cutum pulyaner, rayun and their blands

bet (8 U.G.) Depends on specs Depends on spers 33 000	ellecy (mc.) 67 2+	cial features Air unisumplian tanges Air cumumplian fayiges (fortontal may easy 20-45 cu in ter martine 20-45 ccm.) in multiple operation high pie bright pariety principle production, efficiency 0 7 mm.
Appros. coat (8 U.B.)	Appren. dellucey (ma.)	Other special features

lavesta Kritanska 16 Prague 10 Carchostovakia	Misses Motor Çe. Ltd. 3 1 S 4 hours Shimornjaka Mitaka Tukyn Japan	Picenel Pidentan 3 ? BMP leper Delginin	Ruti Mechine Werks Ltd. CH 96 W Ruti Switzerland
Ominieu I but Parkside Dr Fhatutte N.C. 28208	Box 21043 Checker M. 28224	Prigned of America Doc 5519 Greenville S.C. 29606	Rott Corp 2601 Westinghouse Blod Chylotic N.C. 28217
P 110 130, 150, 170 N	1 422	PAT	1 5000
43.54.59.67	591 469 748	73 945 110 130	55 130
According to width	1,050 5081	1 080 1 3.15 350 520	1 0ud 174 in mudell \$00
Sinkle jet confusor	Single norzie with threed type art gride	By ate per with combined use of main medie relay notates and channel separated from the reed	Cumpressed air
La harmette	t or 6 harness plain weave with crank motion. 9 harness side incunited cain or 10 harness dobty	IM E. crank motion for plain weare for maximum 8 harnesses. FAT M outside cam menton to 12 harnesses.	Can crank douby

5 10	31 \$ or 38 37	32 39 36	28 36
13 7 190 50	12 131	3 \$ 490	56 223
Light and medium hravy labetes, plain issilt satern	Frincioth popin, trouds but, buisse, Abbarline deum cerdutoy Unings industrial fabrits	light and medium sight fabric of spin and fabric of spin and flavority at a single color, well institute of multicelor.	Hatiste broadcloth, shiring bottoniweight, unitorm twill twill stretting corduroy tulest satern fining impression tabut, crepe
Curron polyester. rayon and their blends. g) as liber, rayon and a-riare (Mamen)	100% cotton blends 100% mainmade sputts Beniburg acetate rason.	Spuns Ne 8 80. (Il:ment 54 270 den	Spun yarne, natural and munniade: Ulament yarna. Rai and textured

11 into 22 000	ı	,	31 ONG 174 In mudell
3 13	6 8 lfrom Japani	1	
hirthred nasp mind flour space, hw alt consumption rasy qu'estion	ters energy requirements due et a sangle march choose air come pat councentland or of 444 and measurand or the fact of 12 and 12 and 14 and 14 and 15	Drawn type me assisting with their be tree for first adjustment of filting bright at supply to make a section of the first and and a supply to the first and a supply notice for trains and effect manager for training the first and a section and a section and a section and a section and a section and a section and a section and a section as a section and a section a	Well suited our making appared tabots a from smooth yatus at high cilicters y

Testile World - October 1992

AIR-JET MACHINES

Masufacturer	Adulph Sasser Lid. (11.153) Arban Sutterland	Togoda Auto Loom Works I Toyoda ha 24 hume Kariya shi Airbi Japan 448	Tesdakoma Corp. No 18 18 5 Cherre Nomachi, 921 91. Kanacawa Lasar
U.B. eepresentative	Saurer Corp Box 16179 Greenwille 3 C 29606	Toyad, Fratte Machy Inc. Box 241047 Charlette NC 28222	Tek mates his Box 8603
Wodel	Saurer 600	JA, JAII	
Width (in.)	72.8	59 00 1142 Hour madels1	59 142 Intire modelst
Speed: Veft insertion (ypm) Picks/min.	1 2 t0 6/H	350 550	1.570
Weft leneralen meibod	Storage device measures exact pick kingh, man and vegorintal noszles have mistoprin essor control	Main nozzie and sub nozzie with arr gunie	Main and sub notites with profile reed by open or drum type yarn storage device
Very abreding method	Can meriton maannum No cana 5 pit k eger, reguire dadby hear mounter maannum 16 harress (cames	Crank up to 6 barnesses can up to 10 harnesses dobby thost or top mount) up to 16 harnesses	Fain steeding for 4 of 5 shalis doby, sheeting of 16 shalis, can steeding of 10 shalis of 10 shalis
Color potters selection	Single cular or filling mixer	Filling unver and 2 color selvition by and 150 s	1 chor maind
Wary beam die (in.)	39.3	31 49 25 43	3
Reb range (ppl)	76.304	11 300	6 320 to 5 tox cements:
447140 80160	Apparel industrial table line or light in their methern prefit or leavy lieur) weights	Plate to the Setter cordines, de blay	Fighin dentin crepe broadchab sheering cofdition taltera glava surgical gausse
Fibera, yaras waren	Ne 5 60 spun blends 40 mM den tilbinent	Ne 7 60 spun 50 had aen Hamen 1475 Liu £ 225 £ 0 (fans flier	he 6 Bi) staple (ILers 30 6ix) den Hament
Appres cost 18 U.B.)	35 (MH) 40 (MH)	ţ	
Appress delivery (me.)	01	•	•
Diber opertal features	Lens or heat con servage, how air pressure assien; pressure assien; suiti automatik reset of with automatik reset of takeny and kriot intolious	Standard tred set main preventer	Nith Uach device acuda set bing marks digitally act stop partitions and ferfer timing, visual display since single causes beno mention in special tour thread waven for display and the stop was a single cause.

Testile World - October 1982

Dire cidor

Stude color well atteing or multicolor

FLEXIBLE-RATIER MACHINES

Dasse Gabit & Co. EQ D 1773 Mobile ser Gunne Writ Germany	Meeary Parties Ltd. 162 173 Thornton Rd Brading West Yorkshire BD1 23G Un. of Kingdom	James Martie Ltd. Brifast, N tretand
Otes Inc Bux 6061 Greenville SC 29606	Frank G.W. McKittrick Ca 63 Middlearn Si N. Chelmaford Mass 19863	Tes America Inc 239 Iverson Way Charlotte: N.C. 28303
Plexible rapter	MBRL 450 S	ML 3.21
74 8 181 1	6 0 180	74 8 129 8
To 601 To 260	650 280	732 320
Pretible rapier beits	Twin Resible subbone cary to stope the de for the transfer at form the transfer at form series, saying subbas on sery faster effetent eff.	Resibbe apter
Dobby prquard	Positive cam dokty or granted harrenes are norwally if arm plich with 28 harress maximum oth 19 capacity publibution reversing for put linding.	Cam debby

26 28 30, 32, 36	To 31 &	31.5	31.5
15 146, 3 75 292	078 27 6	6.5 24:0	10 60
Apparet Innuschadd and industrial griffs. Issibs, safren endusor, print denima Itry tuwets.	Mainters and faters of for the for technical proposers. In heavyneight gradities	Suttings creatings startings desides blankis befores startings marcs startings marcs industral tability	Wide fabric range irritudes woolen, wursed upholitery. coinn fabric and can as raiging from domesis ta industrial
Cuting coston-payents. ferunded payener Cordust payener and nymis flat thament	Collon, whole maintade fibers blended yarns	Worken, worned collon Juse kuch manmaden In napid liter yann Menda (lamenta and Janey yatha	Wust rollen blends
24 000 30 000	Depends on specs	Depends on specs	1
Welt carrier coarse to obtain sum. Interpreta and flat interpreta and flat interpreta section in the section is a section in the section in the section in the section in the section in the section in the section is an and doubt, returnal lube system interpreta int	Col hoon fabric Lakeup for bate les In SO in tila	Fringer-kno or tucked selected selected selection and selection and selection and selections and selections of the selection selections and selections and selection and selection and down times at war principle.	First operates with a powerest with a powerest believe from the main shall so a quadran and pinnon merbalism to a serier boar

Mark Moule C. Cober 1982

FLEXIBLE-RAPIER MACHINES

Rati Machine Works Lid.	Adeiph Sewer Lid.	Vemetra SpA	Vamater BpA
	Arban Switterland	24020 VIIIs di Serio Haby	24020 Villa di Serio Isaly
Rutt Cerp 2401 Westinghouse Blvd Charlotte, N.C. 28217	Saurer Curp Box 16179 Greenville SC 29608	Ernest L. Frankl Corp But 6939 Grenville, S.C. 29606	Ericat L franki Corp Bus 1939 Grenville S.C. 29606
2001	Saurer 350	Strist Terry Loom	C/301
43 110	47 84 (steps of 41	75 142	75 150
650 174 In. modell 325	330 460	766 1 055 260 360	768 1 090 255 360
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Cam, dolby, jacquard	Deper maximum forms parts maximum forms parts maximum forms parts from earth ends positively earth at 2 mm parts. Compart jequaid for compart jequaid for chain os verite all shall drive	Tepper matten dadis) jarqusid	Positive tappet systemings to 4 harressed doubly lup to Aprilessed doubly lup to Bot last resets jusquald an jacquaid plus 6 harresses appet mouton for ground weare
Dobby, prquard separate pattern device	Suige color, filling man 3 & chains, choi meter in the per lated by dobby o: separate essecial cata for cam		Ekertost
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Plain, doloby and jacquerd labrics up to eight colors and eight parn types	Appare! Industrial homefurnishing table tines light medium. medium.	Tery toths and towels	Plain or fain's apparel jidusifal household
Spun yerns of natural fibers and manmade fiburents—fist and trainted, morely faney and twists	Spuns bleuds. Hamenis	Cotton and Mends	Cutton would litenent and spine monimades and rethinks filters blends pare
		34,640	25.000
•	•	*	
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C.B. representative	Hatson Yarn & Fabrics Bina 1976 Greenilde SC 29608	Bulliger Curp flux 2949 Specianburg S.C. 29304	Undiger Cosp Box 2949 Sparianburg S.C. 29304
Kodel	Various	SCM Plotomat	GMV 907.3 Veleurumat
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Woff lass rules method	Rapire weaving machine with the lot lip well with the lot lip well with the lot lip well central rapite (damp inflindual adjustment of the control bysters	Rigid repiers freuzes principle, tip to tip transfer tit center of labers excising simple county ten fabrica superingues of cut into two pile labers	Right rapters. Denses principle tip to tip franker teer teed of fabric vesting similar resulty tee fabrice supertimps. 1 val into tee pite fabrics.
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Tary been (4th (1m.)	39 4 (bollern top stands) attechment for 49 in dia	2s.10 (pikr) 2s.32 (ground)	2x10 (ground) 2x32 ((gure)
Mck tange (ppl)	. 181	18 132	10 132
fibrics core.	Silk gray and robured rotting goals workers worsteld institers the Manage furnishing suid upholssery fabrice	Visconte and tanni rollon velvets	100% cutton refers refours pushes, jacquard patterns etiher Lord filling
fibers, paras waven	All types of year serio year count range extends from coarse larry years to finest silk varias	Cotton faton P.E.	Cotton tayon acrylic. PE PP word mobalit
Apprez ceet (8 U.B.)		62 000	116 000
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Teathe World October 1982

RIGID-RAPIER MACHINES

Jeen Goesken GmbM & Co. Fostlach Littato D doko Versen thietken West Leimany	Gasus Gabil & Co. D 4773 Muhinster Gunne West Grinainy	Othin Wasting Mach. Led. Lengthborough Lett extenditie England (0500) 58195	Adolph Cource Ltd. CH 9320 Arbon, Sungerland
Dobliger Curp Bux 2949 Sperianburg S.C. 29304	Otes inc Box widl Grentife SC 29646	Hoshkepi Teanie Machine 1404 Plata Ave New Hyde Park, NY 11040	Saurer Curp Box 16179 Greentiffe S.C. 29606
GMV 90 Velourmal Plain	Rigid Hapier/Double Pile	112 Twin Head Machine	Saurer 500
Si 69	472 90 6	42x2	21.728
21.520 270 (double)	767 To 260	2 500 2 500	1 200 Jin
Rigid rapiers. Dewace principle in on the transfer in center of tabler similarenually weeping tou table buter imposed cut by hitle mutua	Rigid saprer tuda	16 rigid rapiers, per ate on each side in a rousy date of a rousy date of a rousy date of a rousy date of a resolution is per ex-chaining in the app of k up filling and retries.	2 phase 1M and HM fabrics offer 180 deg. Cours-pending pick meers from man hine rener to the outside schages atthout transfer.
Py rasty webbes Three Stanbil Model 1890 IB 32 a. Zangs Midel 440 D	Debry can norton prquatd machine	Name rotary heads on each carm red voicing 18 Bridding roters made of plant disks which have they are disks which have they are disks as the way projects also as the way projects.	Cam motter. 14 cams 9 pick r. :20
bat or tat mices or last culors	Single cidar well havettinn and Codes well interestinnia Handers with fact the Hipper and hive talesta	individual culta beceium ma a astabago periecentug can be formed by arranging the 18 tilling par bago to give a repeat within 18 pirks	Single calor filling
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16 132	25 114	Fe 30	# 50A
160% cation vehera refours plushes fither plus or Aubby patieras	All hinds of plush and selvet fabrics	All kinds of light constructions such as gave a sime light lides of the control lides as a sime light lides as a sime light intertitions.	Apparel industrial light medium heavy
Cation tayon acrylic profusive pulypropyleis woult mohate nykin	Cotton mannade filters • Dended yates	All material and manuscle libers multiding contin- pure markens glass	Spun blends filaments
79 000	Depends on spece	90 (ku)	55 000 70 000
2 20 mm pile height betaern uncut läbite prostinuure ar progtammed pile Gelivery motions		Works on a by phase system which produces two systems which produces two charts at mindraneously operating speeds are at a sea 100 from serial as one from beams beat on system writtend strong	Auronalic pick fracer with automatic reser of taking and feroff mattors

Teathe World October 1982

RIGIO-RAPIER MACHINES

Manufartwer	Adolph Boarer Lid. CH 9320 Arbon Switzerland	Adolph Sourse Lid. CH 5420 Arbon Sunterland	Mitchel Van de Wiele M. Vandeniefertaal F. IT B. USIO Rocceip Marke. Brigeren
U.B. reprosantadva	Saurer Corp Bo c 16179 Greznville S.C. 29608	Saurer Corp Box 16179 Greenike SC 29608	Baton Yan A Fabrice Box 397a Grentile, \$C 29608
lodel	Saurer 600	Tern, maile 400	ALD62 400
Mdib (la.)	72 8 88 6	728 104 3	162
perd: Weft (asertion (ypm) Picke(salm.	860 690 280 32\$	650 675 230 320	009 009
Jeft laserties method	The yarn presented by the color selection is graped at the tijo on the RH side and transported to the center (transfers to LH rapper which draws the filling out of the abed	Rapher operation to similar to Source 400 with your coming etitler directly from the parchage of from a per delivery device	Druess principle Insertion with tip Insertion with tip Insertion with cealer with double dirided Tigits stationary
Warp abedding method	Cam motion & came maaimum & pick repeal. positive doldy maaimum 24 harness frames. jecquard	Cam motion & camp maximum 4 6 ps h reprai, positive dobby maximum 16 harress frames perquand with cam or dobby reministers	With reported dish came one, the pitrion System maximum copacity & came

189

Color pattern selection

	The second secon	The second secon	
Warp beam die ita. j	39.3	29.3 (pite) 31.5 (ground)	39 for 4 divided beams in verifical disposition
Pick range (ppl)	7.8 304	\$ 300	37
Pabrica waven	Apparet, industrial homefactishing table three light, medium medium medium	All terry laberco	Person like rugs using double shuttle wearing technique
Pibers, paras wores	Spun bénas Ne C S 120. lilament, 40 i 840 den	Spun Mends Ne 0 S 120	Pile warps mainly weed. Also ar nitrs and spiring polyprospires bucking is cution or birrids. (idling jure or PP
Appres cool (8 U.B.)	25 000 45 000	55 000 62 0th)	
Approa Gelivery (me.)	•	•	•
Other special features	tens, hear cut or tunked web age rapies dues not contest. Court the marp ut rect.	Lene or turked betraken bray formation eletated takerup stales covered with firm steed	Presistants for wearing east a short principles for a life meeting until the contraction of the contraction

Terms Werld October 1982

RIGID-RAPIER PROJECTILE MACHINES

Michel Wa de Wiele	Michel Ves de Wista	Outnor Bree, Ltd.	Saltar Bran. 114
B 8510 Konrijk Marke.	B #513 Kottrijk Mathe	8401 Wintershur Switzerland	Wintershor and Kings Mountain Plans
eigine.	Deigium		Grater NC
Box 3978 Greenville, S.C. 29808	Betson Yarn & Fabrica Box 3978 Greenville S.C. 23608	Sulter Dros Inc Box 5332 Spattanburg SC 29304	Sutrer Bros Inc Box 5332 Spartanburg SC 29304
MPS32 180	MPS22 184	3	1-5 JGW ES 110 E & D1
99		85 213	141.7
21.350 700	21455 260	To 1 055	1700 171
Dewises Principle: insertion with tip that district in the resist with district tight stationary rapiers	Deware principle: Inacrition with tip Iranizer in the center with divided right stationary rapiers	By means of gripper propriles inumber of projectiles depends on machine widths	By means of gripper projectives
Pite - 3 position open stred jacquard herd backing - 2 position streduction and or 2 position jacquard heads	By 3 position rotary dobby with pit k linding device, standard 4 pile and 8 backing larreses	By means of tapper, motion (tams) and to make the factors of direct justices to patient repeat up to B picket by means of doub; for 18 harnesses and pagnated	B) aceas of tapet motion with weave repea up to 6 picks for a maximum of 6 shales
for pite jacquard	Optional available for 245 filling why too	1 coder filling muser 2 4 & colors by 3 4 & colors by means of dobby 1st quad mechine special print bed card intil	Single cetar
30 (backing)	49 (part) 39 (backing	31 5 37	31 \$ 37, 39.37
13 120	. 901 61	31.4601	25 + 152 +
Jacquard veteris and plusturs for upholstery industry	Plans selver and plansher for uplinistery and contextens industries	Cotton theclaring tery) wood cellulates - sprin and filament, sprin and filament miss of the pute filas thec. metallic in different weave	Standard articles in spurifier years and filaments to be weren with 6 harmers frames
Spun viarine: a. r. ykce as pile narps. cuiton. entin pulynesu or polytsier bends as berking warps	Arrilles cotton spuns viscuse milan polytrespie viscuse Bu file sarp vatim blends -barking	Fracts ally any kind of gestile can material in year trunt cange of 2.000 Fe to 12 dies lischeding PF einbore	166 Tex and liner
-	***	9.13	9 12
Filling selector for 24.5 west, pile Serviti control with pace or warpwise carending earer, or or or or reflect warp	Filling selected for 3.4.8. Minds of selectionside pit is limitary uperations on Hilling susp to the clintal Hilling susp to the clintal To minimize statifing marks	Intercedate in a top onta alies modit a data a casing with all tim true and in private full row the private in interd act age no yan a vace, act age no yan a vace, agers propriet in a accuste repeat	Produced in U.S., multi-with provide with firm the Act for the form of con'railed machine will display paint showing safe and railed and first speed main propertie active.

Tauthe World Octuber 1962

NATER-JET MACHINES

- Constitute	Metaer Sp.A. Via Al Seria. Consenduma Albima Haby 24/121	Meson Meter Co. Ltd. 3 1 S Chemy Shimurezjaku, Mitaka Tukya Japan	Toudabome Carp. No. 18 18 5 Chung. Nonec nt 321 91. Kanasawa, Japan.
V. A. copectanticaling	1	Monan Textile Mach. Box 24-Jeff 3 Charlette N C 28224	Felimates inc Bus Must Charlotte N.C. 1920a
fodel	JH 100	LW52	ZW100 ZW300
Math ite.)	66, 74, 90	5916.7	30 41
bood. Telko/ada. Pelko/ada.	1 227 Tu 650		1 410
	Filting years in productor and an accordance by a second second by a second for a second in the right an anidar nextle accordance the second the sheaf	Water jet with enclusive I pach measuring device	Water jet system with ring souths and pluster pump; souths denies with rotary drum.
Betia Bellete grebed	Camp teachard in an ad buth, crash reservational dollary	4 Parness plain weare: 4 harness double shaft paan weare; 6 harness plain weare (48 with crans menions	Plain shedding for 6 or 6 dobby shedding of 16 snafts

Color posterio estection	Mad to addition	I par & secanting system seek I at as 2s2 follong smarten	1 color missed
Werp been die ibn. j	33	31.5.39.37	\$
Pleb reage (ppt)	10 103		12 153 tO 5 teer!
Pabrics werea	Light on medium heavy Galery	Myten brining speciesces, cust an and umbrita. Liotin polythers blause fabrita acristo busings and curtain fabric stores.	Manmode safera. lexidred labera, crepe
There, gards words	Warp yang techede Maneral pelyenara nyian, pely propietes, acrase sisteme casan glass Miling filamenta, spung	Plantern warp and faling and filting and filting the marp spring 14 unto do as brind spring counts	Flament 30 840 dem high twisted yarn up : to 76 tpl
Approx root (8 U.S.)	Depends on specs		

Appres delivery (me.) Other special features Tortile World Uttuber 1902

APPENDIX W

FINISHING METHODS

Finishes Primarily For Hand and/or Appearance

Crepeing

Fulling

Mercerizing

Lustering

Delustering

Weighting and filling

Crabbing

Decating

)

Calendering

Stiffening

Softening

Finishes Primarily For Utility

Dimensional Stabilization

Shrink Resistance

Wrinkle and Crease Resistance

Wash-Wear, Durable Press

Protective Types

Water Repellency

Fire Resistance

Mildew and Rot-Resistance

th-Proofing

Anti-Static

 ${\tt Anti-Fume}$

Germicidal

Fabric Coating

Fabric Laminating

Multipurpose (e.g. FWWMR)

APPENDIX X

1982 DAVISON'S BLUE BOOK

Category	Total U.S. Facilities
Bleachers of:	
Cotton	91
Knit Goods	23
Man-Made Fabrics	85
Raw Stock	6
Wool or Worsted	8
Yarns	47
Dyers of:	
Carpet	21
Cotton	116
Hosiery	34
Knit Goods	66
Man-Made Fabrics	174
Raw Stock	22.
Silk	8
Wool (Worsted	26
Yarns	90

1982 DAVISON'S BLUE BOOK

Category	Total U.S. Facilities
Printers of:	e e
Broad Fabrics	24
Cotton	57
Knit Goods	28
Man-Made Fabrics	75
Narrow Fabrics	10
Rotary Screen	10
Silk	7
Wool or Worsted	7
Finishers of:	
Blends	68
Carpet	17
Cotton	129
Hosiery	41
Knit Goods	72
Man-Made Fabrics	168
Silk	10
Wool or Worsted	17

1982 DAVISON'S BLUE BOOK

Category	Total U.S. Facilities
Bonding	31
Coating of Fabrics	83
Decating	23
Flameproofing	54
Flame Repelling	36
Jet Dyeing	12
Laminating	67
Mercerizing	23
Mildew Proofing	11
Package Dyeing	51
Rubberizing	• • • • • • • • • • • • • • • • • • • •
Scouring	62
Screen Printing	92
Solvent Finishing	. 14
Sponging or Shrinking	36
Waterproofing	50
Water Repelling	44

1982 DAVISON'S BLUE BOOK CLASSIFIED DIRECTORY

MILLS

	Type	Total in U.S.
,		
Yarn,	Blends	112
Yarn,	Cotton Carded	97
Yarn,	Cotton Combed	61
Yarn,	Elastic	18
Yarn,	Knitting	· 72
Yarn,	Man-Made and Yarn Producers	90
Yarn,	Man-Made Spinners, Winders, Twisters	175
Yarn,	Mercerized	7
Yarn,	Merino	3
Yarn,	Open End System	25
Yarn,	Roving	5
Yarn,	Spun Man-Made Fiber	94
Yarn,	Stretch	18
Yarn,	Texturized	73
Yarn,	Thrown	41
Yarn,	Warps	9
Yarn,	Weaving	48
Yarn,	Wool	62
Yarn.	Vorsted	28

1982 DAVISON'S BLUE BOOK CLASSIFIED DIRECTORY

MILLS

Type	Total in U.S.
Blankets, Wool	29
Blended Fabrics	66
Braids and Trimmings, Cotton	71
Braid, Elastic	20
Braids and Trimmings, Synthetic	72
Broad Fabrics, Man-Made	68
Broadcloths	36
Buckrams	6
Burlaps	6
Carded Cotton	12
Carding, Wool	17
Combing, Worsted	7
Cordage and Rope, Natural Fibers	70
Cordage and Rope, Man-Made Fibers	61
Denims	29
Dobby Goods	
Ducks	32
Elastic Braids	45
Elastic Webbing	41
Flactic Coods Names	24

1982 DAVISON'S BLUE BOOK

CLASSIFIED DIRECTORY

MILLS

Type	Total in U.S.
Fabric - Cotton Broad	6
Fabric - Man-Made	59
Fabric - Woolen	. 7
Grey Goods - Cotton	36
Grey Goods - Man-Made	42
Industrial Fabrics - Woven	99
Interlinings - Cotton	5
Interlinings - Man-Made	17
Men's Wear - Woolen	33
Men's Wear - Worsted	18
Narrow Fabrics	89
Nonwoven Fabrics - Cotton	30
Nonwoven Fabrics - Wool	18
Nonwoven Fabrics - Man-Made	106
Tapes	95
Thread	92
Twines, Cotton, Linen	35
Webbing	67
Winding, Coning, Spooling, Twist	60
Women's Wear - Woolen	41
· · · · · · · · · · · · · · · · · · ·	16

APPENDIX Y GENERAL APPAREL CATEGORIES

Category	Description	# Study Items
1	Shirts - Single Needle	. 11
2	- Double Needle	6
3	Skirts	5
4	Trousers - Single Needle	6
5	- Double Needle	12
. 6	Underwear - Knit Shirts	5
7	- Knit Bottoms	4
8	- Woven Shorts	1
9	Outerwear - Parkas	18
10	- Liners	9
.11	Work CLothing	12
12	Knit Socks	3
13	Headwear	17
14	Gloves	19
15	Narrow Fabrics	15
16	Special Military Products	40
17	Miscellaneous Items	12
18	Tents	15
19	Mattresses	1
20	Pillows	. 1
21	Blankets	1
22	Tailored Coats/Jackets	9
23	Accessories	7
24	Sheets	· 1
25	Towels	1

Category L

Shirts - Single Needle

Study Items:

Spec.	Description
MIL-J-43990(GL)	Jacket, Woman's, Summer, Warp Knit (Short Sleeve)
MIL-J-44020(GL)	Jacket, Woman's, Summer, Warp Knit (Long Sleeve)
MIL-J-87035A(NU)	Jumper, Man's, (Blue, Dress)
MIL-J-87037A(NU)	Jumper, Man's, White
MIL-S-19984C(MC)	Shirt, Man's, Khaki; with Quarter Length Sleeve
MIL-S-29149A(SA)	Shirt, Man's, Poly and Rayon
MIL-S-29368A(MC)	Shirts, Women's, Poly/Ctn, Long Short Sleeves
MIL-S-43505C(GL)	Shirt, Woman's, Poly/Ctn
MIL-S-44041(G)	Shirt, Man's, Short Sleeve, Poly/Ctn, Army Green
MIL-S-87016(SA)	Shirt, Man's, Poly/Ctn, Short Sleeve
MIL-S-87027	Shirt, Men's, Poly/Ctn

Category 2

Shirts - Double Needle

Study Items:

spec.	Description
MIL-C-43199f	Coats, Hot Weather, Men's, Combat
MIL-C-44048(GL)	Coat, Combat, Woodland Camouflage Pattern
MIL-J-82293B(SA)	Jacket, Utility, Dark Blue
MIL-S-10858G	Shirt, Cold Weather, Field, Wool/Nylon, Olive Green 108
MIL-S-43502A	Shirt, Woman's, Wool, Field
LP/PDES19-73C	Coat, Camouflage Pattern, Desert

Category 3

Skirts

Study Items:

Spec.	Description
WIL C 21007E/VC)	Skirts, Women's, Wool
MIL-S-21087E(MC)	
MIL-S-28997A(MC)	Skirts, Women's, Poly/Wool, Green
MIL-S-40128E(GL)	Skirts, Women's, Wool and Poly/Wool
MIL-S-43488B(GL)	Skirt, Woman's, Wool, Field
MIL-S-43996(GL)	Skirt, Woman's, Summer, Warp Knit

Category 4

Trousers - Single Needle

Study Items:

Spec.	Description
MIL-S-29364(MC)	Slacks, Women's
MIL-S-43985(GL)	Slacks, Women's, Gabardine, Army Green 344
MIL-T-29369(MC)	Trousers, Men's, Wool and Poly/Wool
MIL-T-41834F	Trousers, Men's, Poly/Ctn
MIL-T-87038A(NU)	Trousers, Men's (Blue Enlisted)
MIL-T-97067(NU)	Trousers, Men's (Blue Enlisted, Blue and White)

Category 5

Trousers - Double Needle

Study Items:

Spec.	Description
MIL-S-43526B	Slacks, Utility, Women's, Wool, Field
MIL-T-1870H(GL)	Trousers, Cold Weather, Men's, Field, Wool, M-1951
MIL-T-6284K	Trousers, Extreme Cold Weather, Type F-1B
MIL-T-21704D(SA)	Trousers, Cold Weather, Permeable
MIL-T-21705D(SA)	Trousers, Extreme Cold Weather, Impermeable
MIL-T-43217F	Trousers, Hot Weather, Men's, Combat
MIL-T-43497B	Trousers, Cold Weather, Field, Nylon and Ctn
MIL-T-43654B	Trousers, Snow Camouflage, White, Arctic
MIL-T-44047(GL)	Trousers, Combat, Woodland Camouflage Pattern
MIL-T-83385	Trousers, Flyers, Extreme Cold Weather, CWU-18/P
LP/PDES 10-74A	Trousers, Night Camouflage, Desert
LP/PDES 20-73C	Trousers, Camouflage Pattern, Desert

Category 6

Underwear - Knit Shirts

Study-	Items:
--------	--------

Spec.	Description
MIL-S-43357C	Shirt, Sleeping, Heat Retentive and Moist, Resistant
MIL-T-43984(GL)	Tunic, Woman's, Rib Knit
MIL-U-17611F	Undershirt, Extreme Cold Weather
MIL-U-43262B	Undershirt, Cold Weather, Men's
JJ-U-413D	Undershirt, Man's, (Quarter-Sleeve)

Underwear - Knit Bottoms

Study Items:

Spec.

Description

MIL-D-15390K

Drawers, Extreme Cold Weather

MIL-D-2525D(MC)

Drawers, Men's, Ctn, Ankle Length

MIL-D-43261B

Drawers, Cold Weather

MIL-D-43783C

Drawers, Men's (Brief Type)

Category 8

Underwear - Woven Shorts

Study Items:

Spec.

Description

MIL-D-40099F

Drawers, Men's, Boxer Style

Category 9

Outerwear - Parkas

Study Items:

Spec.

Description

MIL-C-17889D(MC)

Coat, Shooters: Ctn, Sateen, Green

MIL-C-43455E

Coat, Cold Weather, Field

MIL-C-43507A(GL)

Coat, Woman's, Wool, Field

MIL-C-43972A(GL)

Coat, All-Weather, Woman's, Black with Removable Liner

MIL-C-44030(GL)

Coat, All-Weather, Man's, Black with Removable Liner

MIL-J-43923A(GL)

Jacket, Flyers, Lightweight Wrists and Waist

Category 9 (Continued)

Outerwear - Parkas

Study Items:

Spec.	Description
MIL-J-21708E	Jacket, Cold Weather, Permeable
MIL-J-43924B(GL)	Jacket, Cold Weather, (High Temp Resis.)
MIL-J-82299B(NU)	Jacket, Extreme Cold Weather, Impermeable
MIL-J-83382B(USAF)	Jacket, Flyers, Men's, Summer, Fire Resistant
MIL-J-83388B	Jacket, Flyer, Cold Weather
MIL-0-82250C(SA)	Overcoat, Man's, Enlisted
MIL-0-2414F(NU)	Overcoat, Man's, Enlisted
MIL-P-6279J	Parka, Extreme Cold Weather, Type N-3B
MIL-P-10809E	Parka, Snow Camouflage
MIL-P-43496C	Parka, Extreme Cold Weather
MIL-R-82290C(NU)	Raincoat, Man's (Enlisted)
MIL-P-82277C	Parka, Wet-Weather
LP/P DES 25-73A	Parka, Night Camouflage, Desert

Category 10

Outerwear - Liners

Study Items:

Spec.	Description
MIL-L-41800	Liner, Groundtroop's - Parachutist's Helmet
MIL-L-43335C	Liner, Wet Weather, Poncho
MIL-L-43466C	Liner, Extreme Cold Weather, Parka
MIL-L-43498B	Liner, Cold Weather Trousers, Field
MIL-L-43536D	Liner, Cold Weather Coat
MIL-L-43672B	Liner, Snow Camouflage Trousers: White, Arctic, M-65
MIL-L-43720A(GL)	Liner, Rucksack
LP/P DES 14-73A	Liner, Night Camouflage, Parka, Desert
LP/P DES 12-79	Liner, Combat Vehicle Crewmen's Coverall

Work Clothing

Study Items:

Spec.

Description

MIL-A-41829C

Apron, Utility, Rubber Coated Fabric (Gen Pur)

MIL-C-8314!A

Coveralls, Flyers, Men's, Summer, Fire-Resistant

MIL-C-22-2F

Coveralls, Men's, Ctn, Sateen

MIL-C-15096H

Coat, Food Handlers

MIL-C-14610E

Coveralls, Explosives Handlers

MIL-C-38488A

Coverall, Flying, Anti-Exposure, Quick Donning CWU-16/P

MIL-C-41833B(GL)

Coverall, Mechanics, Cold Weather

MIL-C-83141A

Coveralls, Flyers, Men's, Summer, Fire-Resistant

MIL-C-83195

Coveralls, Flyers, Anti-Exposure CWU-21/P

MIL-C-43907A

Parka and Trousers, Wet Weather

LP/P DES 14-78

Coveralls, Combat Vehicle Crewmen's

LP/P DES 15-80

Overalls, Combat Vehicle Crewmen's

Category 12

Knit Socks

Study Items:

Spec.

Description

MIL-S-48J

Socks, Men's, Wool, Cushion Sole, Stretch Type

MIL-S-504F

Socks, Men's Winter (Wool and Ctn)

MIL-S-12549G

Socks, Men's, Nyl and Ctn, Ribbed, Stretch Type

Headwear

Study Items:

Spec. Description

MIL-B-83268A Berets, Women's, Fur Felt

MIL-C-1911G(GL) Cap, Combat, Woodland Camouflage Pattern

MIL-C-16472F Cap, Knit (Watch)

MIL-C-17614E(NU) Cap, Garrison, Man's

MIL-C-21181C(MC) Cap, Garrison, Man's: Wool, Serge, Green

MIL-C-21709D(SA) Cap, Cold Weather, Permeable

MIL-C-29136(SA) Cap, Food Handlers

MIL-C-29366A(MC) Cap, Utility Camouflage

MIL-C-29373A(MC) Cap, Garrison, Women's

MIL-C-43419B(GL) Cap, Garrison, Poly/Wool, Tropical, Army Green 344

MIL-C-43549A Cap, Cold Weather, Insulating, Helmet Liner

MIL-C-87071(NU) Cap, Utility, Blue

MIL-H-43577C Hats, Sun, Hot, Weather

MIL-H-87041(SA) Hat, Service (White)

MIL-H-3364D Helmet, Sun

MIL-H-19448B Hat, Service: With Chin Strap
LP/P DES 40-71B Hat, Camouflage Pattern, Desert

Category 14

Gloves

Study Items:

Spec. Description

MIL-G-43976A Glove Set, Chemical Protective

MIL-G-822J Glove Shells, Leather

MIL-G-835F Glove Inserts, Wool-Nyl, M-1949

Category 14 (Continued)

Gloves

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Spec.	Description
MIL-G-2366F	Gloves, Leather, Heavy, M-1950
MIL-G-3866E	Gloves, Men's, Cloth, Ctn, Knitted, Lightweight
MIL-G-17602D(SA)	Gloves, Leather, Black (Wool Liner)
MIL-G-21893C(NU)	Gloves, Cloth, Nyl, Knitted, (Dress)
MIL-G-38227A	Glove, Shells Flyers
MIL-G-41817C	Gloves, Cloth, Men's (Dress), White
MIL-G-43755H	Gloves, Leahter, Lined, Black, Woman's
MIL-G-43976A	Glove Set, Chemical Protective
MIL-G-81188B	Gloves, Flyers, Summer, Type GS/FRP-2
MIL-M-809D	Mitten-Inserts, Trigger Finger, OG-208
MIL-M-810G	Mitten Shells Cold Weather (Trigger Finger M-1965)
MIL-M-834J	Mitten Set, Extreme Cold Weather
MIL-M-2418F	Mitten Shells, Snow Camouflage, Ctn, White, Two Fing
MIL-M-11199F	Mitten, Heat Protective

Gloves, Combat Vehicle Crewman's, Summer

Gloves, Combat Vehicle Crewman's, Cold Weather

Category 15

Narrow Fabrics

LP/P DES 13-78

LP/P DES 9-79

Study Items:

Spec.	Description	
MIL-B-43826A	Belt, Individual Equipment, LC-2	
MIL-B-530	Belt, Trousers, Ctn Webbing, With Clip	
MIL-B-833F	Belt, Trousers, Ctn Webbing, With Clip	
MIL-B-1851F	Band, Helmet	

Category 15 (Continued)

Narrow Fabric

ς	t 11	dΨ	Items	:
_		4 7		•

Spec.	Description
MIL-B-21154B(MC)	Belts, MP: Ctn Webbing; White
MIL-C-17864C(MC)	Carrier, Pistol Holster; Ctn Duck, White: MP
MIL-H-3697C	Harness, Man's, Sled, Single Trace Type
MIL-H-41802D	Headband and Neckband, Ground Troops-Para, Helmet Liner
MIL-P-43304C	Pack and Harness Assembly, Parachutist's Weapons
MIL-R-43323D	Rifle Butt Pocket and Strap Assembly
MIL-S-1698F	Slings, Bag and Case Carrying
MIL-S-10926F	Suspenders, Trousers, M-1950
MIL-S-21042(MC)	Sling, Flagstaff: Leather, Brass Socket
MIL-S-43013C	Sling, Universal, Individual Load Carrying
MIL-S-43828	Strap, Webbing, Cargo Tie Down, Lightweight Pack Frame
MIL-S-43829A	Suspenders, Individual Equipment Belt, LC-1
MIL-S-43835B	Straps, Waist and Shoulder, Pack Frame and Field
MIL-S-43841A	Straps, Chin; Ground Troops Helmet, Steel, M-1

Category 16

Special Military Products

Study Items:

Spec.	Mescription
MIL-B-43366A	Body Armor, Fragmentation Protective, Groin
MIL-B-44053	Body Armor, Fragmentation Protective Vest, Ground Troops
MIL-C-44001	Cover, Helmet, Chemical Protective
MIL-C-2181J	Coveralls, Toxicological Agents Protective; M-3
MIL-C-41031B	Cover, Water Canteen, Insulated, Ctn Duck
MIL-C-43544(GL)	Carrier, Body Armor, Aircrewman, Small Arms Protective
MIL-43742B	Cover, Water Canteen, LC-2

Category 16 (Continued)

Special Military Products

Study Items:	
Spec.	Description
MIL-C-43827B	Case, Small Arms Ammunition, 30-Round Magazine
MIL-C-43830A	Cover, Field Pack, Camouflage, LC-l
MIL-F-43832B	Field Pack, Combat, Nyl, Large, LC-l
MIL-F-43833B	Field Pack, Combat, Nyl, Medium, LC-l
MIL-F-12224F	Footwear Covers, Toxicological Agents Protective
MIL-H-12225F	Hood, Gas Mask, Toxicological Agents Protective, M-3
MIL-H-17024E(SA)	Hood, Extreme Cold Weather, Impermeable (Shore)
MIL-H-43461C(GL)	Havelocks, Women's
MIL-I-43903	Insert, Small Arms Protective Body Armor, Aircrewman
MIL-M-43294B	Mask, Extreme Cold Weather (Olive Green 207)
MIL-N-28935A	Net Cargo, Aerial Delivery
MIL-N-43181A	Net, Multipurpose
MIL-P-21593C(MC)	Panel Markers: Range, Flank, and Debark, Point, Nyl
MIL-P-22295C(MC)	Protector, Trousers, Pistol Holder
MIL-B-43700B	Poncho, Wet Weather
MIL-S-43176B	Screen, Latrine, Fire, Water, Weather and Mildew Resis.
LP/P DES 1-82	Body Armor, Small Arms Protective, Aircrewman
LP/P DES 11-80	Body Armor, Combat Vehicle Crewman's, Fragmentation Prot.
LP/P DES 30-73A	Body Armor, Ground Troops, CM and ICM, Frag. Prot. Vest
MIL-S-43926B	Suit, Chemical Protective
MIL-S-44016	Sleeping Bag, Intermediate Cold, Synthetic Filled
MIL-T-82120A(MC)	Tarpaulines: Duck, Ctn; Fire, Water, W/M Resistant
MIL-T-82120(MC)	Tarpaulines: Duck, Cta; Fire, Water, W/M Resistant
MIL-T-82152A(MC)	Tarpaulines: Duck, Ctn; Vinyl Resin Coated Both Sides
MIL-T-87020(SA)	Trousers, Disposable
MIL-V-43707B	Vest, Ammunition Carrying, For M76 and M203 Launchers
MIL-V-81523A(AS)	Vest, Survival Equipment, Type SV-2A
K-P-146E	Tarpaulines, Ctn Duck, FWWMR
DDD-C-628E	Cover, Mattress
LP/P DES 8-79B	Cover, Helmet, Camouflage

Category 16 (Continued)

Special Military Products

Study Items:

Spec.

Description

LP/P DES 12-78A

Helmet, Ground Troops', Parachutists'

LP/P DES 14-80

Hood, Combat Vehicle Crewman's, Coveralls (Balaclava)

Category 17

Miscellaneous Items

Study Items:

Spec.	Description
MIL-B-829J	Bag, Duffel

MIL-B-3108G Bag, Waterproof, Clothing
MIL-B-3759D Bag, Personal Effects
MIL-B-43290F Bag, Flyers Helmet
MIL-C-7554E Container Kits, Airdrop

MIL-C-10922F Case, Parachutists Individual Weapons, M-1 50, Adjustable

MIL-H-43595A Hammock, Jungle, Nyl, M-1966

MIL-H-43879 Hood, Sleeping Bag

MIL-I-43746A Insect Net, Hat, Sun, Hot Weather

MIL-K-41835 Kit Bag Flyers Ctn Duck Sage Green

Study Items:

Tents

Spec.	Description
MIL-F-18680B(MC)	Fly, Tent: Fire, Water, Weather, and Mildew Resistant
MIL-T-1110E	Tent, Assembly, M-1942
MIL-T-1712N	Tent, General Purpose, Medium
MIL-T-1926F	Tent, Mountain, Two-Man, Complete
MIL-T-10009F	Tent, Kitchen, Flyproof, M-1948
MIL-T-10035H	Tent, Hexagonal, Lightweight, M-1950
MIL-T-10069F	Tent, Maintenance Shelter, Fire, Water
MIL-T-10168H	Tent, Frame-Type, Insulated, Sectional, With Floor
MIL-T-1111E	Tent, Command Post, M-1945, Fire, Water, W/M Resistant
MIL-T-12354D	Tent, Arctic, 10-Man
MIL-T-14038H	Tent, Gen Purpose, Large

Tent, Gen Purpose, Small

Shelter Half, Tent

Category 19

MIL-T-41810F MIL-T-41812F

MIL-T-41813D MIL-S-3725D

Mattresses

Study Item:

Spec.

MIL-M-1835AF(SH)

Description

Mattresses and Mattress Ticks, Berth, Syn Cell. Rubber

Tent Liner Sections, Frame-Type, Maintenance, Medium

Tent Sections, Frame Type, Maintenance, Medium

Pillows

Study Items:

Spec.

Description

V-P-356D

Pillows, Bed, (Feather)

Category 21

Blankets

Study Item:

Spec.

Description

MIL-B-844L

Blankets, Bed, Wool, Shrink Resistant and Mothproofed

Category 22

Tailored Coats/Jackets

Study Items:

Spec.

Description

MIL-C-3771E(MC)

Coat, Man's, Wool, Serge, Green (with Belt) Coats, Men's, Wool and Poly/Wool, Army Green

MIL-C-13990G(Gt)

Coats, Women's, Wool, Poly/Wool

MIL-C-21085E(MC)

Coat, Man's, All-Weather, Dress

MIL-C-29380A(MC)

Coat, Woman's, All-Weather, Dress

MIL-C-29381(MC)

MIL-C-40143E(GL)

Coats, Women's, Wool and Polyester/Wool

MIL-C-43368C(GL)

Coats, Men's, Poly/Wool, Tropical and Wool, Army Green

MIL-C-82186A(MC)

Coat, Man's, Poly/Wool, Green (with Belt)

MIL-J-43982A(GL)

Jacket, Woman's, Gabardine, Army Green 344

Accessories

Study Items:

Spec.

Description

MIL-N-49367A

Neck Tab, Women's Shirt: Poly/Wool

MIL-N-41804C

Neckties, Men's, Four-In-Hand

MTL-N-43741(GL)

Neckerchief, Man's, Cotton, Knitted

MIL-N-87042A(SA)

Neckerchief (Acetate Black)

MIL-S-17868B(MC)

Scarf, Neckwear; Wool, Woman's

MIL-S-43317B

Scarf, Neckwear, Woman's, Acrylic

DDD-H-71H

Handkerchief, Man's and Woman's

Category 24

Sheets

Study Item:

Spec.

Description

DDD-S-281K

Sheet, Bed, Cotton, and Polyester/Cotton

Category 25

Towels

Study Items:

Spec.

Description

DDD-T-551K

Towel, Bath, Ctn, Terry

APPENDIX Z

DOMESTIC INDUSTRIAL BASE APPAREL COMPANIES 1977 CENSUS OF MANUFACTURES

SIC Code	Description	Number of Companies	Number of Establishments
2331	Women's Blouses	1,297	1,422
2337	Women's and Men's Suits and Coats	1,563	1,677
2339	Women's and Men's Outerwear	1,634	1,802
2381	Fabric Dress and Work Gloves	100	132
2385	Waterproof Outerwear	155	167
2311	Men's and Boys' Suits and Coats	618	737
232i	Men's and Boys' Shirts and Nightwear	667	928
2323	Men's and Boys' Underwear	56	76
2327	Men's and Boys' Separate Trousers	405	514
2328	Men's and Boys' Work Clothing	347	656
2329	Men's and Boys' Clothing NEC(1) Outerwear	552	632
2252	Knit Hosiery NEC	382	415
2254	Knit Underwear Mills	80	92

Headwear(2)

20 cap manufacturers producing 50 percent of U.S. production.

Tents(3)

15-20 major manufacturers of recreation and camping tents.

15 manufacturers of rental tents able to convert.

⁽¹⁾ NEC - Not elsewhere classified.

⁽²⁾ Headwear Institute, 1979 estimate.

⁽³⁾ Industrial Fabric Association, 1982.

APPENDIX AA

GENERAL APPAREL CATEGORIES DOMESTIC PRODUCTION

Category	SIC Code	Description	Domestic Production Estimate
			(000's)
1		ShirtsSingle Needle	
• *			
	23214-07	Men's Sport Shirts-Woven	74,460
	23214-11	Men's Dress Shirts	91,596
	23214-51	Boys' Sport Shirts-Woven	18,276
	23317	Womens, Misses, and Juniors	
		Shirts and Blouses	320,448
			ro1 oct 11 15
			521,064 Units
2		Shirts-Double Needle	
. 4		Suite-Double Recate	
	23281-00	Men's and Boys Work Shirts	42,720 Units
3	•	Skirts	
	23374	Women's, Misses, and Juniors	70,152 Units
•			
	•		
4		Trousers-Single Needle	:
•	23271-11	Men's Trousers and Sport Slacks	
	23283-21	Men's Jean-Cut Slacks	64,940
	23271-41	Men's Shorts	4,494
	23271-57	Boys' Trousers and Sport Slack	
	23283-51	Boys' Jeans-Cut Slacks	30,725
	23271-61	Boys' Shorts	5,844
	23295-11	Women's Slacks	160,810
			413,374 Pairs
•			
5		Trousers-Double Needle	
	12202 -11	Manla Tanna	100 700
	23283-11 23283-41	Men's Jeans Boys' Jeans	188,700
	23395-31	Women's Jeans	72,888
•	69377-31	HOMEN 3 JEANS	70,406
			331,994 Pairs
			331,777 14113

GENERAL APPAREL CATEGORIES DOMESTIC PRODUCTION (Continued)

	SIC		Domestic
Category	Code	Description	Production Estimate
			(000's)
6	•	Underwear-Knit Shirts	
		·	,
	22541-21	Men's Undershirts-1/4 Sleeve	198,648
	22541-31	Boys' Undershirts-1/4 Sleeve	59,148
•	22541-42	Men's and Boys' Sleeveless	
		Undershirts	43,486
	23212-01	Men's Sport Shirt-Knit	325,800
•	23212-24	Boys' Sport Shirt-Knit	153,108
		•	780,190 Units
7		Underwear-Knit Bottoms	
	22541-62	Knit Shorts	7,416
	22541-61	Men's Briefs	241,740
	22541-7i	Boys' Briefs	101,640
	23412-13	Women's, Misses, and	
		Juniors Panties	434,484
•			
			785,280 Units
8		Underwear-Woven Shorts	
			,
	23221-16	Men's and Boys' Boxer Shorts	63,072 Units
9 & 10		Outerwear Parkas and Liners	
	23291	Men's and Boys' Heavy Outerweam	23,688
	23292 pt	Men's and Boys' Light Outerwear	
	23397 pt	, ,	•
	22533 pt	Women's Outerwear	42,900
	23850	Men's and Boys' Raincoats	44,472
	23850	Women's and Girls Rainwear	6,708
	23371	Women's Juniors and Misses Coat	s 201,696
	23112	Men's Overcoats	39,120
			385,572 Units

GENERAL APPAREL CATEGORIES DOMESTIC PRODUCTION (Continued)

Category	SIC Code	Description	Domestic Production Estimate
11		Work Clothing	(000's)
	23284-01	Men's Work Pants	39,276
	23284-20	Men's Coveralls	13,044
	23284-71	Boys' Workpants and Cover	alls <u>4,572</u>
			56,892 Pairs
12		Knit Socks(1)	
	2252	Men's, Boys', and Childre	
	22.72	Hosiery	1,833,648 Pairs
		,	
13		Headwear(4)	
,	2352	Emblem Caps	90,000 Units
1979-	 20 Manufacture:	rs produced 48 million embler	m caps at 50 percent of
,	capacity.		
14		Gloves(2)	
	23811	Dress and Semi-dress	38,196
	23812	Workgloves	299,976
	i i		338,172 Pairs
15		Narrow Fabrics(2)	
	22411	Woven Elastic	1,561,609 Lin. Yds.
	22411-8	Ribbons	578,874 Lin. Yds.
	22411-5	Tapes	2,564,552 Lin. Yds.
	22411-3	Webbing	589,131 Lin. Yds.
	22411-11	Elastic Braids	956.662 Lin. Yds.

GENERAL APPAREL CATEGORIES DEMESTIC PRODUCTION (Continued)

Category	SIC Code	Description	Domestic Production Estimate (000's)
16		Special Military Products	
17		Miscellaneous Items	
18		Tents(5)	
		Recreational and Camping Rental Tent Industry	1,200 Units 17 Units
			1,217 Units
19		Mattresses	
	25150-10 25153-00	Mattresses Foundations	14,582 Units 8,213 Units
20		Pillows(3)	
	2392	Bed Decorative	39,167 22,221 61,388
21		Blankets(3)	
	Twin	Thermal Woven Other Woven and Nonwoven	43,748 Sq. Yds. 112,763 Sq. Yds.
			156,511

Square yards required per twin size blanket = 5 156,511 ÷ 5 - 31,302 twin size blankets

GEMERAL APPAREL CATEGORIES DOMESTIC PRODUCTION (Continued)

•	SIC	•	Domestic Production Estimate
Category	Code	Description	(000's)
22	· ·	Tailored Coats/Jackets	1000, 37
	2311-1	Men's Suits	14,816
	23113	Men's Sport Coats	17,692
	23114	Boys' Suits	6,281
	23372 23374 - 22	Women's, Misses, and Juniors So Women's, Misses, and Juniors	uits 18,162
		Jackets	20,131
			77,082
23		Accessories	
24		Sheets(2)	
		Crib	7,692
	2211	Flat	121,224
	•	Fitted	80,028
			208,944
25		Towels(2)	
	2211		539,172

Source: unless specified otherwise, Current Industrial Report 1980.

^{(1) 1980} Survey and Analysis of Circular Hosiery Machinery in the U.S.

⁽²⁾ Current Industrial Report 1981.

⁽³⁾ Cotton Counts Its Customers 1982 Edition.

⁽⁴⁾ Headwear Institute 1979 estimate from Mr. Homer Page.

⁽⁵⁾ Industrial Fabric Association 1982.

APPENDIT BB

SELECTED ITEM CARMENT ANALYSIS

Specification Number	Description
MIL-C-43368C(GL)	Coat, Man's Polyester/Wool Tropical, AG 344, Class 3
MIL-S-40128E(GL)	Skirt, Women's, Wool and Polyester/Wool
MIL-T-44047	Trousers, Combat; Woodland Camouflage Pattern
MIL-C-44048(GL)	Coat, Combat; Woodland Camouflage Pattern
MIL-S-44041(GL)	Shirt, Man's Long Sleeve, Polyester/ Cotton, Army Green, 415 Durable Press
MIL-L-43536D	Liner, Cold Weather Coat
MIL-P-43496C	Parka, Extreme Cold Weather
MIL-F-43832B	Field Pack, Combat, Nylon, Large, LC-7

MIL-C-43368C(GL) COAT, MAN'S POLYESTER/WOOL TROPICAL, AG 344, CLASS 3

Garment is only applicable to manufacturers of tailored clothing.

Problems that above manufacturers will likely experience or prefer changes in construction in order of priority include:

- 1. Front Canvas: Basting the front canvas into position and padding the lapel is a construction technique used by a minority of the current tailored clothing manufacturers. Consider fusing a canvas onto the coat front prior to the sewing operations. This procedure would make the production of this coat applicable to more tailored clothing manufacturers.
- Undercollar: The current construction uses a two-piece undercollar that is padded in the sewing room. It requires several operations to be performed before the topcollar and undercollar are joined. Consider changing to a pre-padded undercollar. This would eliminate the preparatory operations and would make the garment construction applicable to industry manufacturing.
- 3. Collar: The collar points are rounded and therefore require hand stitching to join the topcollar and undercollar in this area. Consider changing to a square collar point. This would eliminate the need for hand stitching and make the garment construction more applicable to industry manufacturing.

Other considerations of lesser importance include:

- Pocket Welt Machine used in lieu of conventional single needle pocket making for the lower front pockets and the lining pocket.
- Two thread chainstitch in lieu of lockstitch seams on join lining to facing, make sleeve lining, sew sleeve inseam and sew sleeve elbow seam.
- Lockstitch tack in lieu of hand finishing at vent corners.
- Fusing a nonwoven wigan onto the sleeve cuff in lieu of sewing a woven wigan onto the sleeve seam outlets.

MIL-S-40128E(GL) SKIRT, WOMEN'S, WOOL AND POLYESTER/WOOL

Garment is most applicable to manufacturers of dress and casual slacks requiring open seam construction. Some ladies' sportswear manufacturers may be competitive but this is unlikely because of high fashion and the frequency of style changes required. Construction is probably more common to high quality dress slack manufacturers.

Problems that above manufacturers will likely experience or prefer change in construction in order of priority include:

- 1. Finishing of raw edges on inside of garment. Allow contractor option of overlocking raw edge with six to ten stitches per inch or pinking 1/8 to 3/16 inches in depth.
- Make placket and attach zipper: Allow option to attach zipper by inserting zipper tape under overlock seam on side of folded placket, or, further consider allowing side opening edge of back and lining to be inserted under same overlock seam as described above.
- 3. Back and inside lining

and press individual darts.

- a. Eliminate basting lining to back since side edges are overlocked together.
- b. Make lining side of back with darts pre-sewn and avoid seaming back shell and lining into seams on back darts.
- 4. Darts
 Allow option of staying across top of darts, thus turning in correct direction, and finishing only with final press in lieu of specified sew
- 5. Seams
 Allow option of 301 or 401 stitch on all inside seaming operations.
- 6. Bottom Hem
 Note: Sample garment was pinked and bound, with binding attached to bottom edge, turned up 2 1/2 inches, and finished with blindstitch.

Allow option of overlock on bottom edge, turn up and blindstitch thus eliminating binding.

- Band Allow option of label being inserted under inside of topstitch band seam.
- 8. Loops Allow option of folding and inserting ends of loops under band seam in lieu of staying ends before inserting under seam.

MIL-T-44047 TROUSERS, COMBAT; WOODLAND CAMOUFLAGE PATTERN

Garment is most applicable to manufacturers of jeans, and most denim jackets and industrial workwear.

Problems that above manufacturers will likely experience or prefer change in construction in order of priority include:

- Hip Pocket: Cut in welted hip pocket is not common to lapped or fell seam construction. Consider changing to outside patch pockets, with or without bellows, or backs. Flaps on pockets are not considered problem.
- 2. Fly: The major change that would make the garment more applicable to industry manufacturing would be a zipper fly. This is not considered number one priority because it is understood that buttonhole construction may be an absolute requirement in compat. Adjustments in shape at bottom of right fly would aid any manufacturer, and could be done without affecting strength, durability, or appearance.
- 3. Band: Basic jean construction on left band at fly opening would be more applicable for above manufacturers. Top buttonhole is through fly and band so appearance would be close to same. With jean construction, band end on left would be finished similar to present right band end.
- 4. Join sides and join seat: same as #1 on coat.

Other considerations of lesser importance include:

- Chainstitch in lieu of backstitch on attached facing to front and back pockets.
- Make Cargo Pockets Accept same construction on top hem as on coat. (or) Consider acceptance of same construction as Attach Band or facing stitched to pocket using two needle 401 type stitch with folder.
- Allow one-piece construction on buttonholed fly in lieu of two-piece.

MIL-C-44048(GL) COAT, COMBAT; WOODLAND CAMOUFLAGE PATTERN

Garment is applicable to manufacturers of jeans, most denim jackets, and industrial workwear.

Problems that above manufacturers will likely experience or prefer change in construction in order of priority include:

- 1. Set in Sleeves, Join Side and Sleeve Seams: Allow contractor options of seaming with four-thread safety stitch (515/SSa-2) and then raise-stitching over seam with two-needle chainstitch (401). (Single-needle chainstitch should be considered.) This method has higher labor cost but will add those contractors to bidding list who do not have in-house capability of fell (lapped) seam (LSc-2) construction.
- 2. Attach Flaps: Be consistent with spec on trousers by allowing single needle on raised stitch of attached flap.
- 3. Patches to Sleeves: Again, be consistent with trouser spec and single-needle patches to sle .s.

MIL-S-44041(GL) SHIRT MAN'S, LONG SLEEVE, POLYESTER/COTTON, ARMY GREEN, 415 DURABLE PRESS

Garment is most applicable to manufacturers of dress shirts and high-quality sport shirts.

Problems that above manufacturers will likely experience or prefer change in construction in order of priority include:

- 1. Utilization of semi-automated and automated equipment: It has been KSA's experience that manufacturers of this particular product have, in general, invested more in high technology than any other apparel product line. KSA feels that it would be to Natick's advantage to consider as number one priority, allowing potential contractors to submit for approval, minor changes in shapes of collars, flaps, pockets, cuffs, and possibly front plackets when required. If acceptable, this deviation would allow the manufacturers an opportunity to possibly utilize highly productive equipment without an additional investment to justify or include in cost quotations. Minor changes in shape of a part will often require major investment in equipment modification if an existing automated machine is to be utilized.
- 2. Pressing: Consider allowing manufacturers the choice of using conventional pressing equipment in lieu of currently required hot head application and avoid additional investments where hot head equipment is not available. Garments would still have to pass the rigid end item test requirements shown in the specifications. It has been KSA's experience that durable press quality can be achieved on most fabrics using a conventional utility press and increasing the pressing cycle time.
- 3. Per Pocket: Accept 3/8 to 1/2-inch finished hem with either 301 or 401 stitch, across top of pocket.

MIL-L-43536D LINER, COLD WEATHER COAT

Basically a simply constructed garment that is most applicable to manufacturers of lower to medium quality outerwear and possibly some industrial workwear. However, bids would likely be received from any type manufacturer with limitations on availability of buttonhole equipment.

Problems that above manufacturers will likely experience or prefer change in construction in order of priority include:

- Attach Binding Approve chainstitch as optional.
- 2. Consider snaps in lieu of buttonholes as per parka.

MIL-P-43496C PARKA, EXTREME COLD WEATHER

Garment is applicable only to manufacturers of medium quality outerwear or limited type industrial shirts. Construction requirements are within a limited range and differences will depend on individual manufacturer's methods.

MIL-F-43832B FIELD PACK, COMBAT, NYLON, LARGE, LC-7

Specialty item that will be limited to manufacturers of comparable products such as backpacks, tents, golf bags, lightweight luggage, bandoliers, etc.

TEXTILE AND APPAREL PLANT CLOSINGS SOUTH CAROLINA (SEPTEMBER 79 - JUNE 82)

Company	Location
Abney Mills	Woodruff
Graniteville Company	Williston
Milliken and Company Excelsior Plant	Union
Beaufort Shirtmakers	Beaufort
Southern Worsted Mills	Greenville
J. P. Stevens Aragon Plant	Rock Hill
Grendel Corporation Poinsett Mill	Greenville
Newberry Mills	Newberry
Ruth's Fashions	Greenville
Collins and Aikman	Cowpens
Georgetown Textile	Andrews
Southern Stitchmasters	Hamer
Florence Manufacturing Company	Florence
Mount Vernon Mills	Columbia
Spring Mills Gayle Plant	Chester
J. P. Stevens Apalache Plant	Greer
M. Lowenstein Pacific Home Fashions	Orangeburg
J. P. Stevens Riverine Plant	Taylors
J. P. Stevens	Jonesville
J. P. Stevens Republic #1	Great Falls
J. P. Stevens Republic #2	Great Falls
Quality Mills	York
Union Textile/Thor Fibers	Union
Monsanto	Blacksburg
J. P. Stevens Taylors #1 Plant	Taylors
Ricgel Textile	Walhalla
J. P. Stevens Industrial Plant	Rock Hill
Oneita Knitting	Lane
Plusa, Inc.	Jamestown
Anderson Hosiery	Prosperity
Prices Apparel	Dillon

TEXTILE AND APPAREL PLANT CLOSINGS SOUTH CAROLINA (SEPTEMBER 79 - JUNE 82) Continued

Company	Location
Highlander Manufacturing	Blackville
EMC	Easley
Jonathan Logan Butte Knit	Spartanburg
Jasta Manufacturing	Branchville
Blue Bell - Sedgefield Division	Westminister
Pacific Home Fashions	Orangeburg
Ryco Knitting	Simpsonville
Walterboro Dress	Walterboro

TEXTILE PLANT CLOSINGS GEORGIA

(SEPTEMBER 80 - SEPTEMBER 82)

(Continued)

Company	Location
American Mills	Monticello
Canton Textile Mills	Canton
Elberton Mills, Division United	Elberton
Merchants & Manufacturers	
Fulton Cotton Mills (later Fabrics America)	Atlanta
Goodyear Tire and Rubber Company	Rockmart
(Textile Tire Cord)	
Goodyear Tire and Rubber Company	Cedartown
(Textile Tire Cord)	
ITT Rayonier-Lumber	Camak
Milliken & Company, Calumet Plant	LaGrange
Modern Fibers	Calhoun
Modern Fibers	Fitzgerald
Rosewood Knitting Mills	Martinez
Rothschild Mills	Acworth
Rothschild Mills	Columbus
Scottdale Mills	Scottdale
Shamrock Mills	Marietta
Trend Carpet Mills	Rome
Unique Knitting Mills	Acworth

TEXTILE AND APPAREL PLANT CLOSINGS NORTH CAROLINA (JANUARY - JULY 1982)

(Continued)

	-
Company	Location
Blush Lingerie	Elkin
Kenneth Home Fashion	Matthews
Burlington Garment Company	Burlington
Skyland Textile, Inc.	Forest City
Rainbow Classics Manufacturing	Angier
Specialty Dyers	Concord
Burlington Industries	Cent-1 Fall
ATHTEX	Lowell
Burlington Industries, Phenix Plant	Kings Mountain
Blue Bell, Wrangler Womenswear	Eethel
H & S Processors, Inc.	Crouse
Guilford Mills, Lowell Plant	Lowell
Heritage Quilts, Inc.	Bryson City
Heritage Quilts, Inc.	Sylva
Blue Bell, Wrangler Division	Spruce Pine
Blue Bell, Wrangler Division	Tipton Hill
Blue Bell, Wrangler Division	Micaville
Dan River, Mebane Plant	Mebane
Dixie Yarn Company	Cedar Falls
Lynx Hosiery, Inc.	Mount Airy
Burlington Industries, Goldsboro Plant	Goldsboro
Texfi Industries, Inc.	Fayetteville
Crompton-Pilot Mills	Raleigh
Belding Lily Company	Shelby
Unifi, Inc.	Burlington
Block Industries, Inc.	Benson
Craftex, Inc.	Farmville
Carolina Machinery, Rando Corporation	Charlotte
Blue Bell, Wrangler Division	Lenoir
Blue Bell, Wrangler Division	Taylorsville
Eurlington Industries, Cascade Weaving	Mooresville
Mount Vernon, Lanier Plant	Clarkton

APPENDIX DD

RECENT U.S. TEXTILE MILL PURCHASES OF FOREIGN EQUIPMENT

J.P. Steven, Seneca, S.C., purchases 100 TecnoMaTex TMT 80 filling accumulators for Sulzer weaving machines from Lang Ligon & Co.

Hawyard-Schuster Woolen Mills Inc. (East Douglas, Mass.), Newtex Industries Inc. (Victor, N.Y.), and Mastercraft Corp. (Spindale, N.C.) purchase Dornier rigid-rapier weaving machines from Batson Yarn & Fabrics Machinery Group.

Cone Mills, Greensboro, N.C., purchases 202 MT 80-filling accumulators for wide-filling, mix-Sulzer weaving machines, and 213 TMT 80 accumulators for wide Sulzer, multicolor PU looms, for its Minneola Plant, Gibsonville, N.C., from Lang Ligon & Co.

Dan River Inc., Greenville, S.C., purchases 186-Aerofil air-jet-loom, conversion units from Leesona Corp. Purchase completes a three-year trial installation at the Greenville Plant, Woodside Div.

Walton Mills Inc., Monroe, Ga., orders 162 TecnoMaTex 80 filling accumulators from Lang Ligon. They will go on new Saurer 400 weaving machines now being installed in new facilities under construction.

Springs Industries plans to invest \$175-million in new textile technology. The first phase is to replace 4,500 looms in its sheeting and apparel plants with \$80-million worth of new equipment.

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Burlington Industries plans a multi-million dollar modernization program that includes a \$25-million project at its Asheville and Cramerton (N.C.) plants. The project will convert the Asheville Plant to 100% air-jet weaving and modernize the Cramerton Plant equipment.

Frank Ix & Sons Inc., Lexington, N.C., purchases over 100 TecnoMaTex THT 80 filling accumulators for its Saurer and Dornier looms from Lang Ligon & Co.

Dan River Inc., Danville, Va., received the 10,000th Staubli KR rotary dobby from Staubli KG and Sulzer Bros., in honor of Dan River's centennial and in recognition of its pioneering role in producing shirting fabrics on Sulzer weaving machines.

M. Lowenstein & Sons, Lyman, S.C., has purchased 102 Sulzer weaving machines to be installed at its Joseph Lyons Plant in Anderson, S.C., to product sheeting.

Cone Mills Corp., Greensboro, N.C., has purchased 328 Tecnomatex TMT-80 filling feeders for its Salisbury (N.C.) Plant to be used on Saurer 400 looms producing medium-weight apparel fabrics.

Dorr Woolen Mills, Guild, N.H., has purchased additional Dornier rigidrapier weaving machines from Batson Machinery Inc.

Cone Mills, Greensboro, N.C. bought 328 TMT 80 filling feeders from Technomatex of Switzerland for its Salisbury (N.C.) Plant.

Thomaston Mills, Thomaston, Ga., buys 32 Nuovo Pignone shuttleless looms; an Automatic Materials Handling chute feeding system; 16 Americand II cards from John D. Hollingsworth; and Zinser Model 720, 2-del drawing frames with automatic doffers.

Wendell Fabrics Corp., Blacksburg, S.C., buys an undisclosed number of Dornier weaving machines, from Batson Yarn & Fabrics Machinery Group.

Blumenthal Mills Inc., Marion, S.C., purchases 90 TecnoMaTex TMT 80 filling accumulators from Lang Ligon & Co.

Beacon Mfg. Co., Swannanoa, N.C., installs 74 TecnoMaTex TMT 80 filling accumulators on TW-11 Sulzer weaving machines in its Westminster (S.C.) plant from Lang Ligon & Co.

Dan River, Greenville, S.C., has installed a Tsudakoma high-speed warper, single-end sizing machine and rebeaming machine at its Haynsworth Plant. The machines were purchases from Tekmatex Inc.

Monsante Co.'s Dalton (Ga.) Plant purchases 40 Kamitsu Model ET-1012s takeup winders from Izumi Int'l. Thomaston Mills, Thomaston, Ga., buys 32 Nuovo Pignone shuttleless looms; an Automatic Materials Handling chute feeding system; 16 Americand II cards from John D. Hollingsworth; and Zinser Model 720, 2-del drawing frames with automatic doffers.

Coats & Clark Inc., Albany, Ga., purchases several 160-spindle Barmag WT1E two-for-one twisters for filament yarns.

Comtwist Inc., Mebane, N.C. purchases Murata 2-for-1 twisters for its new commission-throwster operation which came on stream Sept. 1.

L.W. Packard & Co., Ashland, N.H., purchases four woolen spinning frames from American Duesburg Bosson.

Coats & Clark Inc. has purchased 22 silver-fed Super High Draft worsted ring spinning frames from Officine Gaudino.

Carleton Woolen Mills Inc., Winthrop, Me., buys CBP woolen spinning frames from American Duesberg Bosson Inc.

Martin Processing, Martinsville, Va., buys additional Mackie spinning frames from Tex America.

Mayfair Mills, Pickens, S.C., purchases eight Rovematic Model FB-1D roving frames; Harriet & Henderson Yarns Inc., Henderson, N.C., buys 12 Rovematic Model FB-1D roving frames; Maqatex SA, Puebla Pue., Mexico, purchases six Spinomatic Model SCB-17E cotton system-ring-spinning frames and a Versamatic Model DE-8C drawing frame from Platt Saco Lowell.

Kendall Co., Boston, Mass., and Freundenberg & Co., Weinheim, Germany, announced formation of a U.S. joint venture to manufacture and market non-woven spunbonded fabrics in North America.

Lutravil Spinnvlies, a Kaiserslautern, W. Germany spunbondeds manufacturer, is planning a joint venture with Kimberly Clark "somewhere in the Carolinas." The initial single line will produce spunbonded polyester nonwovens for automotive carpet backings and bases for roofing felt materials.

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Shuford Mills, Hickory, N.C., buys 10 Versamatic Model DF-11A drawing frames for its Hickory and Hildebran Plants from Platt Saco Lowell.

Thomaston Mills, Thomaston, Ga., buys 32 Nuovo Pignone shuttleless looms; an Automatic Materials Handling chute feeding system; 16 Americard II cards from John D. Hollingsworth; and Zinser Model 720, 2-del drawing frames with automatic doffers.

<u>Duro Finishing Corp.</u>, Fall River, Mass., purchases the first Goller flashager range with washers in the United States from Kratex Textile Machine Sales & Service Inc.

The Defense Personnel Support Center, Philadelphia, Pa., purchases a third Versamatic semi-decating machine from Gessner Co.

Dan River Inc. is phasing out operations at its Greenville (Ala.) corduroy plant, with permanent shutdown scheduled for Nov. 1.

Bibb Co. closed its Hanover (Pa.) Plant, July 15. The carpet yarn plant employed 200 workers.

J.P. Stevens & Co., is closing its Jonesville (S.C.) Plant and the Republic #1 Plant in Great Falls, S.C. Jonesville employs about 225 in its industrial fabrics production, while Republic #1 produces apparel fabrics and employs about 200.

Burlington Industries Inc. is phasing out its Cascade Weaving plant in Mooresville, N.C. over the next two or three months. The plant employs 375 workers.

Celanese Corp. New York, N.Y., closes its Cumberland, Md., acetatetriacetate plant for three months because of "poor demand for tricot yarns." Two other acetate plants—at Narrows, Va. and Rock Hill, S.C.—are not affected by the Cumberland closing, the company says.

Missbrenner Prints Inc., Clifton, N.J. purchases a Reggiani 12-color rotary screen printing machine.

Textile Printing & Finishing Co., Lebanon, Pa., installs a 12-color, 72-in. rotary printing machine from Johannas Zimmer Co.

Thomaston Mills, Thomaston, Ga., buys 32 Nuovo Pignone shuttleless looms; an Automatic Materials Handling chute feeding system; 16 Americand II cards from John D. Hollingsworth; and Zinser Model 720, 2-ael drawing frames with automatic doffers.

Greenwood Mills, Greenwood, S.C., buys four Marzoli automatic bale openers for its Durst Plant and Mathews No. 2 Plant from Cromtex.

Thomaston Mills, Thomaston, Ga., buys 32 Nuovo Pignone shuttleless looms; an Automatic Materials Handling chute feeding system; 16 Americand II cards from John D. Hollingsworth; and Zinser Model 720, 2-del drawing frames with automatic doffers.

Clinton Mills, Clinton, S.C., purchased 32 Crosrol Mark 3/80 single highproduction cards for intimate blend of cotton-polyester at its Lydia Plant.

<u>Macfield Texturing</u>, Burlington, N.C., purchases additional high-speed texturing machines Model FK6L-10 for its nylon operations from American Barmag.

Nantong Textile Industry Corp., Nantong, China, will put a new 4,700-ton polyester P()Y plant on stream in 1984. This is the third major contract for Zimmer AG in China over the last five years.

Tsusuki Spinning Co., Nagoya, Japan, is installing 96 air-jet weaving machines from Nissan.

Chung Shing Textile Co., Taiwan, plans a fifth expansion to produce 20.00 ton/yr polyester staple fiber and 6.000 ton/yr polyester chips.

Namsun Textile Co., Korea, buys 63,000 spindles of Type 802 Spinomatic spinning frames from Platt Saco Lowell.

Nakano Shokufu, an Osaka, Japan, textile group, orders 266 Saurer 500 two-phase rapier weaving machines, replacing 1000 conventional weaving machines, from Adolph Saurer Ltd.

APPENDIX EE

1958 to 1979 INDUSTRY SHIPMENTS FOR ALL MANUFACTURING INDUSTRIES: (In millions of constant 1972 dollars)

1972 Code

1979

659.1 965.5 786.6 206.2 450.6 773.3 6229.5 626.5 2330.5 427.7 427.7 427.7 1068.3 1068.8 1808.8 498.4 498.4 2273.0 1371.0 1936.3 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1936.7 1937.6 1937.6 1937.6 1937.7 1978 746.6 1886.8 455.0 22507.4 1249.0 70.1 474.1 1815.9 625.5 88.1 3585.0 3585.0 3585.0 13606.5 136.0 371.6 152.5 31.9 133.4 145.4 735.9 939.9 595.3 196.2 392.3 737.9 5805.0 636.1 201.1 1977 678.7 1815.7 1243.1 1243.1 1243.1 1856.9 490.4 490.4 140.9 170.6 133.6 137.4 1976 842.2 616.8 468.5 173.4 251.6 701.9 722.1 2116.3 33682.0 472.0 472.0 472.0 757.2 634.3 1759.9 1062.7 1062.7 1062.7 1062.7 1062.7 1062.7 1062.0 1975 657.5 1767.0 732.4 149.4 2660.6 3856.6 450.1 566.7 984.7 1703.8 987.7 987.7 135.2 135.2 157.9 127.6 157.9 142.6 146.6 1972 865.1 397.4 397.4 191.0 276.4 589.1 823.3 44.0 1135.8 778.2 347.1 254.1 1362.8 84.5 608.1 302.9 132.9 204.0 104.0 960.4 1985.5 895.2 137.1 751.4 466.9 183.9 198.3 303.3 1961 564.7 350.1 493.1 777.7 48.1 202.9 476.0 264.9 331.7 27.3 342.5 411.5 255.0 136.4 64.8 64.8 532.6 400.5 133.6 157.4 193.0 3713.0 1803.5 1125.5 498.0 520.6 1963 448.1 125.1 421.3 382.3 305.1 418.6 865.5 370.0 201.3 370.0 35.1 242.2 242.2 250.0 258.2 101.2 101.2 101.2 108.5 110.0 309.0 314.6 110.0 110.0 314.6 110.0 110.0 314.6 110.0 314.6 110.0 314.6 110.0 314.6 110.0 314.6 110.0 314.6 316.6 3 FELT GOODS, EXC WOVEN FELTS & HATS ACE GOODS WEAVING MILLS, COTTON
WEAVING MILLS, SYNTHETICS
WEAVING & FINISHING MILLS, WOOL
NARROW FABRIC MILLS
WOMEN'S HOSTERY EXC SOCKS CELLULOSIC MAN-MADE FIBERS DRGANIC FIBERS, NONCELLULOSIC TEXTILE MACHINERY SEWING MACHINES COATED FABRIC, NOT RUBBERIZED ITE CORD & FABRIC HOWOVER FABRICS PADDING & UPHOLSTERY FILLING PROCESSED TEXTILE WASTE FINISHING PLANTS, COTTON FINISHING PLANTS, SYNTHETIC FINISHING PLANTS NEC KNIT OUTEKHEAR MILLS KNIT UNDERNEAR MILLS CIRCULAR KNIT FABRIC MILLS WARP KNIT FABRIC MILLS CANVAS & RELATED PRODUCTS FARN MILLS, EXC WOOL THROWING MILLS TUFTED CARPETS & RUGS CARPETS & RUGS NEC HOVEN CARPETS & RUGS KNITTING MILLS REC

2519.3 4644.3 4020.4 4020.4 803.2 40

HOSIERY NEC

2211 2221 2231 2241 2241 2251

100L YARN MILLS

HREAD MILLS

2284 2291 2292 2293 2294

ORDAGE & TWINE

2295 2296 2237 2298 2394

1824 1824 1552 1636

APPENDIX FF

LIST OF CONTRIBUTING AGENCIES AND ASSOCIATIONS CONTACTED FOR REPORT (see List of Abbreviations, Volume 1)

ATMA	CLEMSON
ATMI	FPI
MMF PA	WQM A
NEI	DPSA
NTA	ASA
PCST	DARCOM
FIT	TSARCOM
SBA	TRADOC
AAF ES	nsc
GSA	DCSPER
ASTM	DOD CONGRESSIONAL LIAISON
AAMA	TEXTILE ECONOMICS BUREAU
NC STATE	SLIDE FASTENER ASSOCIATION

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NAHM